

STIC Search Report Biotech-Chem Library

STIC Database Tracking Number

TO: Terra Gibbs

Location: CM1/12A12/11E12

Art Unit: 1635

Thursday, June 19, 2003

Case Serial Number: 998667

From: Mary Jane Ruhl

Location: Biotech-Chem Library

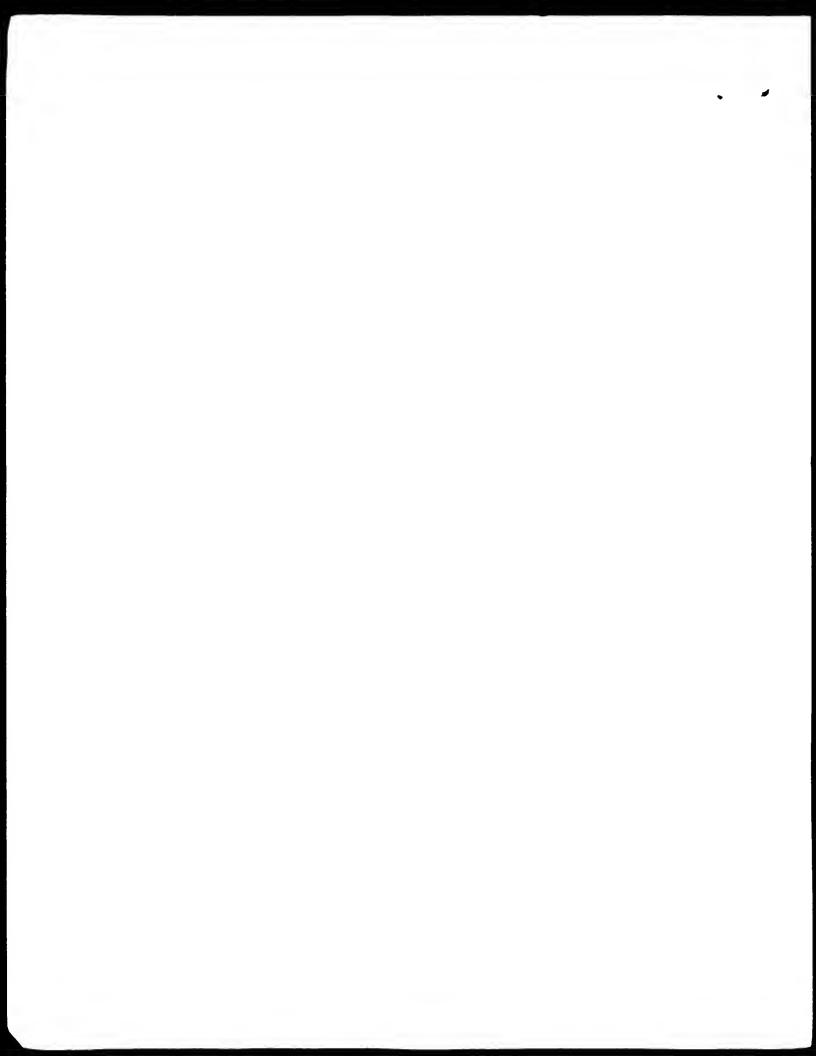
CM1-6A06

Phone: 605-1155

maryjane.ruhl@uspto.gov

Search Notes





From:

Gibbs, Terra

Sent:

Wednesday, June 18, 2003 12:45 PM

To: Subject; STIC-Biotech/ChemLib Sequence search request... 916916

Could you please do a regular search of SEQ ID NO: 1 of USSN 09/998667?

Thank You!

Terra Gibbs AU 1635 306-3221

Mailbox: 11E12

Mary Jane Ruhl Tech, Info. Specialist, STIC TC-1600 CM-1, Room 6A-06 Phone: 605-1155

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Fred. No. is the number of results predicted by chance to have a score greater than or email to the score of the result being printed, and is derived by analysis of the total score distribution.

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SINHMENTS

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Matches 231; Conservative
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                                cauce. Jaicher's disease viral hepatitis; dene therap; cytostation diabetes ne-(litus, arrhythmia wound healing; ischaemic lesion, AIN; AIN; acquired Immune beticiency Syndrome; virucide, hepatotropic; vasotropi actoimmune disorder: inflammation; cardiovascular disorder, hair loss, wound healing; cell proliferation; skin aging; endocrine disorder:
                                                                                                                                                                                                                                                                                                                   AAE10914 standard; Protein; 185 AA
                                                                                                                                          Human, immine system-related protein; allergy; rheumatoid arthritis;
                                                                                                                                                                                  Human gene 6 encoded immune system-related protein HHEOS75
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zhou F, Geodrich R.
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99.6%; Pred. No. 2.3e-125;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Horal immune system-related polypeptide useful for treating rhoumbfold arthritis. AlbS, allety, sawer, saucher's disease, diabetes mellitus, arrhythmia, wound healing, ischemic lesions and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-Aug-20008-224367P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 11; Page 308-309; 315pp; English.
                                                                                                                                                                                                                                                 (cancer), hyperproliferative disorders (Gaucher's Aja-Ase), disorders associated with neovascularisation, diseases at the cellular level, associated with neovascularisation, diseases at the cellular level, cardiovascular disorders (arrhythmias), wound healing and epithelial cardiovascular disorders (arrhythmias), wound healing and epithelial cell proliferation, endecrine disorders (disbetes mellitus) and cell proliferation, endecrine disorders (disbetes mellitus) and neurological disorders (ischaemic lesions). Immune system related protein neurological disorders (ischaemic lesions), skin aging due to sunburn, to or DNA is useful for preventing hair loss, skin aging due to sunburn, to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to human immune system related protein and their
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             viral hepatitis
                                                                                                                  maintain organs before transplantation, to treat weight disorders, to modulate mammalian characteristics, to change a mammal's mental or physical state, or as a food additive or preservative. Immune system related DNA is useful in gene therapy, for chiromosome identification, related DNA is useful, long range restriction mapping and in torensic radiation hybrid mapping, long range restriction mapping and in terested biolog. The present sequence represents a human immune system related
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \frac{9}{2}
        antidiabetic hypotensive, dermatological; imminosippressive; antithiliammatory antibacterial; antiveral; imminosippressive; antithyrad; and antianaemic the Sequences can be used for determining the presence of or predisposition to, or preventing or treating partial conditions associated with an ukfX-associated disorder the clere acids can be used to express oRFX proteins in dens thereory.
                                                                                                          and resortatio: intiparkinsonian; nootropio; neuroprotective, ostropathic; antiropivalsant; antiarthritic; immunosappressant; indunostimulant; rardiant; thrombolytic; coaumiant; vasotropic.
                                                                                                                                                          AMP34446 to AAC77606 encode the proteins given in AAB40237 to AAB43357, which represent the human owex open reading frames 1 to 3161. The EEEX sequences have 3 tivities such as: cylostatic; hepatotropic; vulnerary,
                                                                                                                                                                                                                                                                                              Novel nucleus acids and poptides derived from open reading frame useful tor treating e.g. cancers, proliferative disorders
                                                                                                                                                                                                                                                Claim 11. Page 600-601, 5507pp; English.
                                                                                                                                                                                                                                                                                neurodedenerative disorders and cardiovascular disease
                                                                                                                                                                                                                                                                                                                                                                        N-PSDB; AAC74607
                                                                                                                                                                                                                                                                                                                                                                                                                          Shimkerts RA, Leach M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                immunost inulant; thrombolytic; coanulant vascriopis, aliminost inulant; thrombolytic; coanulant vascriopis, antiiniabetic; antiviral; antibacterial; antitungal; antirheumatic; antiiniametory; antiviral; antibacterial; antitungal; antirheumatic; antituhyraid; antitungal; antirheumatic; antituhyraid; neurodequentarive disorder; ostenathiriis, uraft vs host disease; cardinvascular disease; diabetes mellitus; hypothyroidism; Scib; Alus; severe combined immunodeticlency; malaria; autholimine disorder; asthma; bone damage, cartilabe damage; antiintlammatory disease; coagulation; bone damage, cartilabe damage; antiintlammatory disease; coagulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31 MAR-1499.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-MAR-2000: 2000W0-0808621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    vulnerary; antipsuriatic; antiparkinsonian, nootropic; neuroprotective; anticonvulsant, osteoparhic; antiarthritic; immunosuppressant; cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; open reading frame; ORFX, detection; cytostatic; hepatotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human ORFX ORF162 polyreptide sequence SEQ ID NO:324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-FEB-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB40398 standard; Protein: 156 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MAR-2000; 200008-0540763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APR 1999.
                                                                                                                                                                                                                                                                                                                                                                                      2000 602362/57.
acids can be used to express ORFX proteins in gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 KYTOKYOPLOELEETAARGVGPEGGELYEDSLLDH.TIJHHKJEKH,VV 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        [2] KYTUKYGPTQELEETAAKGYCFFGQRELYEDSLLDHCITHHRSERRPV ]58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      49US-0127607
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Novel auctebe acids and polypoptides, aseful for treating disorders
                                                              N-PSDB: AAI60970
                                                                                                                      TAC SELFO
                                                                                                                                                                                                                                                                                          03-AUG-2000; 2000US-0653450
                                                                                                                                                                                               (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                           29-NOV-2000-
                                                                                                                                                                                                                                                                                                                                       us-JUL-2000;
                                                                                                                                                                                                                                                                               14-SEP-2000;
                                                                                                                                                                                                                                                                                                                      19-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                21-1AN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human, nootropic; immunusuppressant; cytostatic; date therapy; cancer; peripheral nervous system; neuropathy; central hervous system; CNS; Alzheimer's; Parkinsch's disease; Huntington's disease, haemestatic; amyotrophic lateral selerosis; Shy-Drager Syndrome, chemoraette;
                                                                                                                                                                                                                                                                                                                                                                                                                 26-DEC-2000; 2000WO-US-4263.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WU200153312-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  chemokinetie: thrombolytic; drug screening: arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human polypeptide SEQ ID No 6745.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAM41814 standard; Protein, 196 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22.0CT-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vectors. The proteins and nucleic acids may be used to treat cancers, proliferedive disorders, neurodegenerative disorders estemath. His, and two kost disorders is required to the disorders and treat cancers, hypertension, hyperbyroodism, doubseterou ester storage, systemic lupus by the matosus, severe combined immunodefficiency (STD). Albo, which bacterial or fundal infection, malaria, autonomous, disorders, isthma, northrad hasmodolohim is, antiful ammatory disease, to enhance computation; to inhibit thrombosis; and as a contraceptive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                             2001-442253/47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        172 FCPLCHL1PDENPSSFSGSLIRHLQVSH1IVYDJE 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            169 FODLORLIPBENESSESANLIKHLOVSHILFYDD: 203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    105 ISFMKAHIKTOOKYIDKYGDLOELFETAAROVOFFOOKELYFDSLILDHOTJBBBSEBBBY 168
                                                                                                         Liu C. Asundi V. Cheb R. Ma Y. Wang Z. Wehrman T. Xn C. Xne A.J. Zhoa L. Goodfieh R. Dimanac FJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             62 I.SEMRAHTRICOKYTUKYORIQELKETAAROVCPFOQFELYESSLILIHOTTHHREJ EROV 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               49 RIRCOHVECKSCIATELYNNEWTSTETTENTLS STAD VARIABLIJAR ALTD IV. 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 RTROGHVECKSCIAISLKNNKWTCPYCKAYLDSECVPAIDVAKHMKSEVKNCADTHILVC 6.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 similar 11 y
                                                                                                                                                                                                                                      20.008-0727444
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                                                                                                                                                                                                                                                                                                                      200008-0620312
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98.1%;
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Pred No. 4.50-84;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        such as central nervous system injuries -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Althelmer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome, Other uses include the utilisation of the activities such as. Immune system suppression, activity, chemotarer[c/chemokinetic activity, haemostatic activity cancer diamosis and therapy, drug screening, and thrombolytic activity, cancer diamosis and inflammation, leukaemias and assays for receptor activity, arthritis and inflammation, leukaemias and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             in deno therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous of the invention may be used to treat diseases of the peripheral nervous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypertides (AAM38442 AAM42214) with montropic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 2: SEQ 1D NO 6745; 10078pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             system, such as peripheral nervous injuries, peripheral neuropathy localised neuropathres and central nervous system diseases. such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              immunosuppressant and cytostatic activity. The polynoclectides are useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C.N.S disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             specilication.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABB97205 standard; Protein; 228 AA.
                                                                                                                                                                                                                                                                                                                             Howan: antianaemic; valuerary; antiinflammatory; immunomodulator; antiinfertility; derebropiotective; Cytostalic; theomatic, gene therapy; neuroprotective, antiparkinsonian; protein therapy; EST;
                                                                                                                                                                                                                                                                                                                                                                                                   Novel human protein SEQ ID NO: 473
                                                                                                                                                                                                                                                                                                                                                                                                                                       28 - JUN - 2002
                                                                                                                                                                                                                                                                                                                 expressed sequence tag.
                                                                                                                                                                                                                                               W0200222569-A2.
                                                                                                                                                                                                                                                                                   Homo sapiens.
N-PSDB; ABN32391
                                                                                                                                        11-SEP-2000; 2000US-0659671.
                                                                                                                                                                          10-SEP-2001, 2001WO 0826015.
                                                                                                                                                                                                              21-MAR-2002.
                                                                                                      (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local similarity
                    WPI: 2002-292408/33.
                                                     Tand YI, Liu C,
Xne AJ, Yand Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The sequence data for this patent did not form part of the printed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181 KYIDKYGPLQELEETA 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 KYIDKYGPLOELEETA 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 TATSLKNUKWTCFYCRAYLPSEGVPATDVAKRMKSEYKNCAECDITYCLSEMRAHIRTCQ 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 MISVLSTDSGKSAPASATARALERRRDPELPVTSFDCAVCLEVLHQPVRTRCGHVPCRSC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MGSVLSTDSGKSAPASATARALERERDPELPVTSFDCAVCLEVLHQPVETEGGHVF?RSC 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              196 AA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                        Wehrman I,
                                                                        Zhou F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                58.4%; Score 734, DB 22;
100.0%; Pred No 4 le-70;
tive 0; Mismatches U:
                                                                          Asundı V,
                                                          Dimanac RT;
                                                                             Złwaizy J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 22:
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                                                                                 Zhao QA.
                                                                                     Pen F.
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                                                                                                                                                                                                                                                                                AAB43861
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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EXXXXXXX
XXXXXX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            haematopoiesis e.g. to treat aplastic anaemia, to help tissue regrowth e.g. in barn treatment, to regulate the immune system e.g. to treat multiple sciences, to regulate activity or inhibit e.g. to treat multiple sciences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention provides the protein and coding sequences of 444 moved burner inventions. These were isolated from expressed sequences tags (8818). They can be used to stimulate coll growth, to regulate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   encoded polypeptide such as cancer and multiple sclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      An isolated polynucleotide for treating diseases associated with its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2; SEO ID NO 474; 509pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   intertility, to regulate haemostasis or thrombolysis e.g. to treat stroke and cancer, to screen for drugs, to treat inflammatory conditions e.g. rheumatoid arthritis, and to treat berooks system disorders e.g. parkinson's disease. The present sequence is a protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequetace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antidiabetic; antiasthmatic; antirheumatic; antiarthritic; antiviral; antidiabetic; antiasthmatic; antirheumatic; antiarthritic; antiviral; antidiabetic; antiathritic; antibrierid; antibrierid; antibrierid; antiprotective; thrombolytic; coapulant; nourceptic; antiprotective; antiprotec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; cancer associated gene; cancer antigen; detection; cancer; diagnosis; cytostatic; proliferative; vulnerary; humanomodulator; antidiabetic; antiasthmatic; antirheumatic; antidarthritic; antivi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAB43861 standard; Protein; 231 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human cancer associated protein sequence SEQ ID NO:1306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-FEB-2001 (Tirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB43861;
                                                                                                                                                                                                                                                                                                                                                                                                                                           neurological disease; drug screening
                                                   (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                      ₩0200055350-Al.
                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       haemostatic; thrombolytic; cardiovascular disorder; infection;
Rosen CA, Ruben SM;
                                                                                                                                                                                      08-MAR-2000; 2000WA-HS05882
                                                                                                                                                                                                                                                     21-SEP-2000.
                                                                                                                            12 MAR 1999,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                178 SMPWGDPNYRSANFREHIQRRHRFSYDTFVDYDVDEEDMMNQVLQRSIID 227
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31.8%; Pred No. 6 7e-29;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  include: rytostite proliferative valuary: immunamedulator; antiabetic, antiastimatic; antiabematic; antiabetical activital anticular antiabematic; antiabetical; activital; antiabetical; activital; dermatological; neuroprotective; cardiant: thrombolytic: coagulant; neutropic; vasotropic; antiporiatic and antiandiagenic. The polymorle of these and polymorles can be used for presenting, theating amedical conditions and diagnosting pathological conditions.
cerebrovas ular disorder; cerebral ischaemia: angiogenesis;
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                                                                                                                                                                                                                                                           voluctary: secreted protecu; ikeumatoid aithritis;
hyperproliterative disorder; cardioviscular disorder; cardiac arrest;
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31.36; Pred. No. 6.80029;
%*cop 51; Mismatones 85;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypergooliferative disorders c.1. neoplasms of the breast or liver, cardiovascular disorders c.3. sardia, arrest, scattendascular disorders c.3. perchal ischaemia, anglospinesis, rervous system disorders e.9. Altheimer's disease, infections caused by barderia, viruses and funging anglospinesis instead and perchanted by barderia, viruses and funging develop disorders as percental futeriors, and many other disorders listed in the specification. The properties can also be used to aid wound health and epithellal cell proliferation, to prevent skin earned due to sunburn, to maintain ordans before prevent skin earned due to sunburn, to maintain ordans before prevent skin earned as a food additive at preservative to increase or decrease storage as a food additive at preservative to increase or decrease storage.
Homo sapiens
                                                                                      Esman, color cascer: color cascer artisto, diadnosis; detection; colorectal carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAC75629 standard; Protein; 231 AA
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                                                                                                                                                                                                                      Human colon cancer antigen protein SEQ ID No:6393.
                                                                                                                                                                                                                                                                                                    9: %Er 2001 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       associated with decreased expression by restifying matations of deletions in a patient's geneme that affect the activity of P by expressing fractive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps. by inserting the nucleic acids into a host cell and cultiniting the cell to express the proteins. N and P can be used in the processing, 34-34-35 and treatment of colorectal carefulning and ARR7789 represent sequences used in the exemplification of the coverage transcript.
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Human: immunosuppressive, antiarthritie; antirhoumatie;
KW extostatic, caidiant, vasatrophe, corebropheterise montropo,
KW incuroprofective, antibacterial, vitocide functiole; opthalmalogocal:
KW extremary: secreted protein: rheumatoid arthritis;
KW extremary: secreted protein; cardiovase, intertion, ocular disorder;
KW extremary: secreted protein; epithetial cell proliferation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemolaxis. The polypoptides can also be as a load additive or preservative to increase of decrease storage capabilities, tal content, lipid, pratein, carbohydrate, gitamins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  capabilities, tat content, lipid, pratein, carbobydrate, witamins winerals, colactors and other nutritional components. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 e.g. cerebral ischaemia, andiogenesis, cercoes ajstem disorders e.g. ACthermer's disease, infections caused by bacteria, viruses and tungland ocular disorders e.g. corpeal intection, had many other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to a pathological condition. Antibodies to the profess can also be ased in alleviating symptoms associated with the disorders and in diagnostic immunossays (-). Figh-Emmunossays -: energie intendiamnoscripum assays (ELISA). Disorders which are diagnosed of freated immunoscripum assays (ELISA).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 11; SEQ ID No 837; 980pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence represents a novel secreted protein of the invention
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31.3%; Pred No. 8.7e-19;
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                                                                                                                                                                                                                                                                                                                                                                                                                which are characterised by apoptosis, including Alzheimer's disease, Parkinson's disease, Huntington's chorea, amylotrophic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            which is a putative serine protease. If genes function
in biochemical pathways involved in weight control and
related disorders. The products can be used for treating
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                                                                                                                                                                                                                                                                                                                                                                                                lateral sclerosis or spinocerebellar degenerations. The
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                                                            7.6 ENIMERESOTE SOROTSKELLE VEMERREEFE EK YOMEYOVE VITAK KLIKOTSKROUN LIJO
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hyperprofiterative disorder, cardiocascular disorder; cardioc arrest,
cerebrovascular disorder, cerebral ischaemia, angrodenesis;
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corneal infection; wound healthd, epithelial cell proliteration,
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Harash SC, Puben SM

2001 488784/53

N-PSDB, AAS25875

New pureleic acid molecules encoding 461 haman secreted proteins for diagnostia, proventia, treating or amelicrating andical conditions and used as food additives or presentiatives. used as food additives or preservatives

Claim II; SEQ ID No 841: 980pp: English.

expabilities, fat content, lipid, profeir, carbahydrate, sitamins minerals, cafactors and other nutritional components. The present Experioliterative disorders e.g. morphasms of the breast or liver, bardisvascular disorders e.g. vardiav arrest, overthrowascular disorders e.g. cerebral ischaemia, andioquesis, nervous system disorders e.g. Alchemica's dispase, infections caused by bacteria, viruses and tunquand octour disorders e.g. cerebral infection, and many other technical colored to the colored form also are also used in diagnosing a pathylogical condition of susceptibility that a fathylogical condition. Antibody s to the fathylogical condition of susceptibility in a fathylogical conditions associated with the disorders and in diagnostic immunoassays e.g. radioingunoassays of energiae linked jamunosorbant assays (EDISA). Risorders which are diagnosed or treated transplantation, for supporting cell culture of primary tissues, to reqenerate tissues and in chemotaxis. The polypeptides can also be used prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbils, goats, busses, cats, dwgs, chickens or sheep. They sequence represents a novel secreted protein of the invention hs a food additive or preservative to increase at decrease storage disorders listed is the specification. The polymeptides can also be used to aid wound healing and epithelial cell proliferation, to encoded secreted proteins. The nucleic acids and proteins are used to prevent skin aging due to sumburn, to maintain ordans before include autoimmune dispases e.g. rheumatoid arthritis, The invention relates to isolated nucleic acid molecules and their

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of ovariah untilen polynucleotides and polypeptides in diagnosing treating, prognosing or preventing various ovary and/or breast refered disorders, such conditions include ovarian cancer and breast runcer, as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the investion relates to 2175 moves homin ovarian antigens (ABP4)054-ABP4322B) and to chass encoding them (ABC5413-ABC56305), and also rencompasses polypeptides 908 identical and polypecleorides 958 identical to the sequences of the invention. The invention additionally relates to
and ormary system disorders. Ovarian antique polypeptides and polypered system disorders, does not polypered to rempounds which modulate evariat afficience expression or activity. The polyper leading that the disorder therapy, chromosome mapping, in the
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07-JUN-2000:
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24 - FEB - 2000;
02 - MAR - 2000;
16 - MAR - 2000;
17 - MAR - 2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                also be used to modulate cell cycle progression and apoptosis. They can be used for treating course-parative diseases which are characterised by apoptosis, including Albertaris disease, Parkinson's disease, Bond diglora's cheera, amplott-philaterial solerosis of spinosopherilar degenerations. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                    wilnerary; secreted protein, rheumatoid arthritis, hyperproliferative disorder, marchaeval, disorder, marchaeval, hyperproliferative disorder, marchaeval, and progenesis, cerebiousealus disorder, compani (schammin, anglogenesis, sectors, system disorder, Althriber's disease, infection, within disorder, and healing; opinhelial cell proliferation extract injection; wound healing; opinhelial cell proliferation of the context of the cell proliferation.
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encoded secreted proteins. The nucleic acids and proteins are used to prevent, treat or ameliorate a medical condition in e.g. humans, mice rabbits, doats, horses, cats, doas, chickens or sheep. They
        are also used in diagnosing a pathological condition or susceptibility
                                                      "laim 11;
                                                                   diagnostis, preventing, treating or ameliorating medical conditions used as food additives or preservatives -
                                                                                                   N PSDB; AAS25330
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                                                                                                                          Kosen CA.
                                                                                                                                        (HUMA ) HUMAN GENOME SOT INC
                                                                                   New nucleic acid molecules encoding 461 human secreted proteins for
                                     The insention relates to isolated nucleic acid molecules and their
pathological condition. Antibodies to the proteins can also
                                                     SEQ III No 1296; 980pp; English.
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20-JUN-2000;
19-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          redenerate tissues and in chemotaxis. The polyportales can also be used as a food additive or preservative to increase or decrease storage capabilities, far content, lipid, protein, carbobydiate, whimins, minerals, eductors and other mitritional components. The present segmence represents a novel secreted protein of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                         Bounds: cytokine; cell proliferation; cell differentiation; gene therapy, accine, peptide therapy, stem cell drowth lactor; harmatup resis; tissue growth lactor; imbutopodulatory; career; leukaemia; bervous system disorder; arthritis; iblianmation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAM80029 standard; Protein: 133 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and occider disorders e.g. corneal intection, and many other disorders listed in the specification. The polypertodes can also be used to and would healthn and epithelial ceil politication, to prevent skin aging due to sudburn, to maintain organis before
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cardiovascular disorders e.a. Lardia Lirrest. Lerebrovascular disorders e.a. cerebral ischaemia, anyiowenesis, nervous system disorders e.a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               be used in alleviating symptoms associated with the disorders and in
diagnostic immunoassays e.g. radioimmunoassays or enzyme linked
immunosorbant assays (FIISA). Disorders which are diagnosed or treated
                                                                                                                                                                                                            08-17:8-2000;
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                                                                                                                                                                                                                                                                                                                                                        W0200157190-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human protein SEQ ID No 3675.
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hyperprofilerative disorders e.g. neoplasms of the breast of light
(HYSE-) HYSEQ INC
                                                                                                                   01-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             transplantation, for supporting cell culture of lemmary tissues.
                                                                                           15-SEP-2000;
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Pred, No. 1.9e-26;
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                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to polynucleotides (AAK51456-AAK51435) and the encoded polypeptides (AAK78124-AAK80302) that exhibit activity elating to cytokine, reli politeration are which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy. Vaccines of peptide therapy. The polypeptides are various cytokine like activities, e.g. stem cell growth factor activity, haematopolesis regulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          activity, tissue growth factor activity, immunomodulatory activity and activing inhibin activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic acids encoding polypoptides with cytokine like activities, useful in diagnosis and gene therapy \dot{\gamma}
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Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW:
Xue Al, Yang Y, Wejhrman L, Goodrich R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
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N-PSDB; AAK53162.
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Sequence 36, Appl Sequence 35, Appl Sequence 35, Appl Sequence 37, Appl Sequence 27, Appl Sequence 37, Appl Sequence 38, Appl Sequence 39, Appl Sequence 39, Appl Sequence 39, Appl Sequence 39, Appl Sequence 20, Appl Sequence 21, Appl Sequence 22, Appl Sequence 21, Appl Sequence 21, Appl Sequence 21, Appl Sequence 21, Appl Sequence 22, Appl Sequence 23, Appl
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| | IFILEFAX: (617)227-5941 (NF)RMAILIN FOR SFO ID N), 46- SEQUENCE CHARACLEFISICS: LENGIH. 245 amono acids TYPEL amono acid MoJECULE TYPE: poptide LKOMENI TYPE: interbas 68 897-440-36 | FELERATION SEQUENCY LENGTY TYPEA TO SECULATION TO SECULATI |
| | K/AGERT INFORMATION: SILVET, JOAN M. FERATION NUMBER. 39,030 FENET/P="KET NUMBER. MNI 0050'F MUNICALIEN INFORMATI N: BUNE (613)223-7400 | ASTORNE NAME: REGIS PEREBU |
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| | disk platible platible celeuse #1.0 & III. | COMPUTER COM |
| | NUTN'E ADDRÉSS: -SEFY LAMINE STEET - 28 State Street - Massachusetts - Massachusetts - William | Alsoper Alsoper STALE COUNTY |
| Hstop | DESOLI 1 18-08-897-440-46 Sequence 36, Application US/08697440 Parent No. 5955303 DENIALL INFORMATION: APPLICANT: Climpio, Carles J. and Brieda, Febrick, R. ITILE OF INVENTION. Weight Control bathway Oches and Title of INVENTION: Therefore | RESULT 1 US-08-897-340 US-08-897-340 Sequence # Patent No. DENERAL II APPLICAT FILLE OF |
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| Sequence 6, Appli Sequence 2, Appli Sequence 4, Appli Sequence 6, Appli | 20 9.5 1863 3 US-08-825-487A-6 20 9.5 1863 4 US-09-074-476 2 20 9.5 1863 4 US-09-074-475-4 20 9.5 1863 4 US-09-074-475-5 | 42 43 112 44 12 |
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                                                                                                                                                                                                                                                                                                                                            MoLECULE TYPE: peptide FRAGMENT TYPE: internal
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REFERENCE/DOCKET NUMBER: MNI-005CP
TELECOMMUNICATION: 1NFORMATION:
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LENGTH: 245 amino acids
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REGISTRATION NUMBER:
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ATTORNEY/AGENT INFORMATION:
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IELEFAX. (617)227-75941
INFORMATION FOR SEQ 1D NO: 45:
SEQUIENCE CHARACTERISTICS:
LENGTH: 245 amores
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Faterit No. 6147192
                                                                                                                                                                        CENERAL INFORMATION:
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APPLICANT:
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                               APPLICANI: NAKAIA, MOTOMI
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ATTURNEY/AGGET INFORMATION
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DAS
SOFTWARE: Patentin BATCH
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REGISIRATION NUMBER.
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Best Local Similarity 27.2%; Pred, No. 69e-09; Matches 53; Conservative 30, Mismatches 69, Indels 44.
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TILLEGE INVENTION, AND ARTIBULES AGAINST THEM.
FILE REFERENCE: 007898-0255515
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522 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ficality disk
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US-08-975-465-2
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                                                                                                                         : MOLECULE TYPE: protein US-08-975-405-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 2, Application US/08975405 Patent No. 5767244
Hest Local Similarity 24.2%; Score 155, DB L. Matches 54; Conservative 24; Mismarches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Onery Match 12.88; Score 155; DB 1; Leigth 522; Hest Local Similarit; 24.28; Fred. No. 4.1e 99; Matches 54; Conservative 24; Mismatches 69; Indels 76; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL
                                                                                                                                                                                                                                      TELEFAX: (415) 398-3249
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                           NAME: Brezner, Bavid J
KEGISTRATION NUMBER: 24,7747
KEEFRENCE,CD**KFT NUMBER: Two-DO4/Ab-**I2
TELECOMBINICATION INFORMATION:
IELEPHONE: (415) 781-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Goeddel, David V.
APPLICANT: Xiong, Jessie
Tille of INVENTION NO 576724401 Profein - THAF6
NUMBER OF SEQUENCES: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/639,237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: San Francisco
STAFE: California
                                                                                                                                                                                              : HAAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Release #I.0, Version #1.30
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PopuluGY: Finear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 115,708,7475, 405
                                                                                                                                                                      TOPOLOGY: linear
                                                                                                                                                                                                                LENGIH: 522 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                221 ILIREQMENHYDLDCFTAFIECTESTEGCHERMORNHLARHLO 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           163 PCODEPEGKEHINIHILKO--OPKEDVSOLNOAASMAFEDKEIHIPGNOBLANVICEYON. 220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120 DNFAKR--EILSLMVKCPNEGCI.HKME-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 DPPLE-SKYECPICLMALREAV@TPQGHRFOKACIIKSIPDAGHKCPVDNEILLENQLFP 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27 DPELPVISEDCAVCLEVLHQPVRTBCGHVFCFSCIATSIKNNKWTCPYCKAYLPSFGVPA 86
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                                                                                                                                                                                                                                                                 2:
                        24; Mismatches 69, Indels 76, Gaps
                                                                       DB 1. Length 521.
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| 35 FDCAVCLEVINGEVERGEBYCKSCIAISEE - NNEWECTE KAYLESEGVEATOVAKE 9Z : [1 | dd |
| atch cal | Query M Best lo Matches |
| FWOFE: PRT CROANISM: MUS SP. 09-118-277C:1 | : IFNGT ; TYPE: ; ORGAN US-09-138 |
| PRIVE FILING DAIE, 1996-02-22 NUMBER OF SEQ ID NOSE 16 SOFTWARE: Patentin Ver. 2.1 EO ID NO 1 | SOFTWARE |
| PRIOR APPLICATION NUMBER: PCT/JP97/00512 PRIOR FILING DATE: 1997-02-24 PRIOR APPLICATION NUMBER: JP 34674/1996 | HRIO SING SING SING SING SING SING SING SING |
| CURKENT APLICATION NUMBER US/09/138,277C CURKENT FILING DATE: 1998-08-18 | OURR |
| CONTROL TRACE FAMILY MOLECULES, POLYNUCLEGIDES ENCODING THEM, POLYNUCLEGIDES ENCODING THEM, POPER TO AND THODIES AGAINST THEM | TITLE OF |
| APPLICANT: NAKANO, HIKOYASU APPLICANT: YAGITA, HIDEO APPLICANT: OKUMIRA, KO | 7448 |
| 8 · 277c ec 1, No. 6 L INFO | RESULT 8 US-09-138. Seq.erec Patent No. GENERAL ADDITION |
| 221 ППРЕОМЕННУВЛИТЕТАРТЕСТЕЙТЕНИЕМОРИНГАРИТО 263 | 4 |
| 181 | Qy |
| 16 FOCGEFFGKEHINIHLEKT - CFFFGVSCTNCAASMAFEDKELINGMEDIANVIOFYCNT 220 | 40 |
| 142 PECORELYEDS.LDHOITHHRSERRPVFCPLC | Qγ |
| 120 DNEAKE EILSLMYKOPNEGGLIKME LEHLEDIIGAHGEFALMDG 162 | da |
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| 61 DESTANDATION OF STATES AND STATES THE STANDARD OF SECTION OF STANDARD TO STATES THE STANDARD OF STANDARD STA | Db |
| 27 DPELDVISEDCAVCIEVLEGDVPTPCHURICPSCIALSLKNVKWIGIVFCKAYLLSEGVPA 86 | 40 |

APPLICANT: Lederman, Seth
APPLICANT: van Eyndhoven, Wintried
TITLE OF INVENTION: TRAP-3 Deletion isotorms And Uses Thereof
FILE REFERENCE: 0575-58742
TUSLIENT APPLICATION NUMBER 28,709,7268,5448

CURPENT FILING DATE: 1999-03-11 NOMBEE OF SEQ ID NOS. 43 SOFTWARE: Patenth Ver. 2.1

GENERAL INFORMATION:

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: Patent No. 6172187
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                                                                                                                      guery Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                         HELEPHONE: (619) 535-9001
PELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 2:
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                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Campbell, Cathryo A.
KEDISIKALION NUMBER: 41.815
KEFERENZEZDOCKER NUMBER: 9.-C.1 1203
TELECOMMUNICALION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS.
LENGTH: 543 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING LATE: 02-DEC-1994
ALLORNEY/AGENT INFORMALION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION, 530
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         THILE OF INVENTION: CD40 Associated Proteins NUMBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANI: keed, John C. APPLICANI: Sato, Takaaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFIWARE: PatentIn Release #1.0, Version #1.25
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                                                                                                    42: Conservative
21 LHIURSAGIPVEVPEQUOYKEKEVRIVEURYRCERCHIVLOSPRQTEGGHRSCESCMAAL 80
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65 LKNNKWPYPYYRAYI PSENVPAITIVAKE------MKSKYKNYAFYFTI VOLSEMPARI - 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21 LHIDRSAGIPVEVPEQ-00YKEKEVKIVEDKYKOEKOHLVIOSPKQIEEOGHPFOESOMAAL +-0
                                           5 LSIDSGKSAPASATARALERRRDPELPVTSFDCAVCLEVLHQPVRTRCGHVFCRSCIAIS (4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5 LSTUSGKSAPASAIAKALERKKUPELPVTSFUCAVCLEVLHQPVRIKCGHVFCKSCIAIS 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   : California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4370 La Jolla Village Drive, Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SSA
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                                                                                          10.7%: Smore 184.5; DB 4: Length 543: 24.5%; Prod. No. 4_1e=07; ative 26: Mismatches 84: Indels 27:
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103 08-818-514-6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ) MOLECULE TYPE: protein
US-08-349-357-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         : Segremes 2. Application 05/08349357
; Fatent No. 6265556
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                                                                                                                                                                                                                                                                                                                                                                                 Covery Match 10.7%: Score is4.5, D8.4 Length 543,
Best Local Similarity 23.5%; Prod. No. 9.1e 07,
Matches 42; Conservative 26; Mismatches 84; Indeks 27; Oaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 2:
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IELECOMMUNICALION INFORMALION:
TELEPHONE: (619) 535 9001
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TITLE OF INVENTION: *D40 Associated Proteins
NUMBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: DS/0
FILING DATE: 02 DEC-1994
CLASSIFICATION, 435
ATTORNEY/AGENT INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Reed, John C
APPLICANT: Sato, lakaak
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACIERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Type: amino acid
TopoLogy: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Floppy disk
COMPUTER: THM TO computable
OPERATING SYSTEM: DO TOSAMS-EAS
SOFTWARE: Patentin Release #1.0, Version #1.25
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                                                                                                                                            117 PT-CORVIDAYOR OFFEFTAAROVORFOORFCYFOSCORGOURHESERRIVECTU F 154
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                                                                                                                                                                                            BT LSSSSEW TARGESTAKERAFEKAN YEKETLALOTYCKNESKOCAE OF ITABITABITED. 137
                                                                                                                                                                                                                                         65 I.K.N.K.W.L. ETC. PAYLES ENVEATED VAKES
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: Sequence 6, Application PS/08818(14 : Fatent No. 5837838

GENERAL INFORMATIONS

APPLICANI:

Rood, John C

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US-09-115-934A-6
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: Patent No. 6130317
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Best Local Similarity
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TELEFAX: (619) 535-8949
INFORMALION FOR SEQ ID NO: 6
                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER. THM PC COMPUTATIONS
OPERATIONS SYSTEM: PC-POSEMS POS
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SUFTWARE: Patentle Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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FILLE OF INVENTION: BAX Labibitor Proteins
NUMBER OF SEQUENCES: 16
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THIME OF INVENTION: BAX Inhibitor Proteins
                                                                                                SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
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NAME: Campbell, Cathryn A
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                     PRIOR APPLICATION DAIA:
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                                    CLASSIFICATION: 435
                                                            FILING DATE:
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APPLICATION NUMBER: US 08/818,514
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                                                                               APPLICATION NUMBER: US 2007115 444A
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Matches 28; Conservative
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TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 6:
                                                                                                          INFORMATION FOR SEQ ID NO: 5:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Rauscher III, Frank J. APPLICANT: Jensen, David E. ATTILE OF INVENTION: HECAI AssociaTITLE OF INVENTION: Uses Therefor
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TELECOMMUNICATION INFORMATION:
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ATTORNEY/AGENT INFORMATION:
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MEDIUM TYPE: Floppy
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                                                                                                                                                TELECOMMUNICATION INFORMATION:
TELETHONE: 215-540-9200
                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 60/038,109 FILLING DATE: 19-FEB-1997 ATTORNEY/AGENT INFORMATION:
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                                                                                   SEQUENCE CHARACTERISTICS:
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TYPE: amino acid
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                                                                                                                                                                                                             REGISTRATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUFTWARE: PatentIn Release #1.0, Version #1.30
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ToPoLOGY: auknown
                    STRANDEDNESS:
                                        I.A.I.I.
                                                          LENGTH:
                                                                                                                              TELEPAX:
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                                        amino acid
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                                                             100 amino acids
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52.2%; Fred. No. 2.3c-06;
ntive 12; Mismatches 97; Indels 10; Gaps
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Futent No. 5622829
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1ELEFAX: (415) 494-8771
1ELEX: '910 277299
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LLNCIH: 312 amuno acids
                                                                                                                            Learly Match 3.5%; Score lies 15 Length 312. Hest Local Similarity 25.8%; Pred. No. 1.8e-05; Matches 24: Conservative 17; Mismatches 46; Indeis
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NAME: OSMAN, RICCLARD A
FEDISIFATION NUMBER: 8, 5, 27
REFERENCE/JOURNAL NUMBER: A.59564-3/10JB/RAO
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk
COMPUTER IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-D/S
SOFTWARE: Patentin Release #1.0, Version #1.40
CURRENT APPLICATION BATA:
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MEDIUM TYPE: Floppy
COMPUTER IBM PG COM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: GENETIC MARKERS FOR BREAST AND OVARIAN LITTLE OF INVENTION: CANCER NUMBER OF SEQUENCES: 24
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TYPE amino acid
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                                          23 ECPTOLECTKERVATKOMHECKECMENTELENGKEGESGEFEEK------NOTEKES 72
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                                                                                      36 D. AVCLEVEHOPVRTROCHVECKSCIATSLKNIKW--JCPVCFAYLESEGVPALIVAKRM 93
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| <u>ب</u> | 919 | 7 1 . 1 | 185 | æ | US-09-945-842-15 | Sequence 19, Appl |
| 4 | 349 | 27.8 | E13 | , | US-10-205 823-455 | Sequence 455, App |
| J | 14'9 | 27.8 | 511 | Ξ | 8 579-866 56 SG | Seductice 8, April |
| ŗ, | 4.1.8 | E7.8 | 2 5 1 | ٠. | ## ## ## ## ## ## ## ## ## ## ## ## ## | Sequence 640s, Ap |
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| ¥ | 34.8 | 27.7 | 1.4.1 | - I | US C9 764 864 837 | Servate Bar, App. |
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| 1.4 | 147.5 | 11.7 | 567 | £ | US-10-242-212-7 | Sequence 7, Appli |
| 15 | 147 | 11.7 | 56,8 | r | 115-08-814-324A-2 | Sequence 2. April: |
| 16, | 142.5 | 11.3 | 438 | 10 | 98-09-960-902-2 | Sequence 2, Appli |
| 17 | 142 | 11.3 | 584 | æ | US-08-613 323A 1 | Sequence 1, April |
| 1 н | 1 કેલ | 11.0 | 56.3 | E | US-09-764-864-1277 | sequence 1277, Ap |
| 14 | 1 38 | 11.0 | 658 | 10 | US-09-764-864-818 | Sequence 818. App |
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| Sequence 4. Apply | Sequence 2. Appli | Sequence 6. Appli | Sequence 4 April | Sequence 2. Appli | Sequence I soot. Ap | Sequence 6052, Ap- | Sequence 13. Appl | Sequence 15. Appl | Sequence 17, April | Sequence 116. App. | Sequence 114. App | The Paris of the Appel | Sequence 427ou, A | Sequence 34586. A | Sequence 10, Appl | жериевсе 118, А рр | Sequence 150, App | Sequence 112, App. | Sequence 242, App. | Sequence 4of. App | Sequence 40%, App. | Sequence 65%, App | Sequence 11. Appl | Sequence 15. Appl | Sequence 2, Appli |

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| | ERECA APELICATION NOMBLE U. 60/282,462 | |
| | CURRENT APPLICATION NUMBER: US/09/998.667 | 2.2 |
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APPLICANI: Ni et al. PT047P1 Rithe OF INVENTION: PT047P1 File REFERENCE. Immine System-Related Polynumicotides, Polypeptides, and Antibodics CUPPENT APPLICATION NUMBER: 05/09/94/943 CURRENT FILING DATE: 2001-09 02 PRIOR APPLICATION NUMBER: POTTURENTITION OF PRIOR APPLICATION NUMBER: POTTURENTITION
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SOFTWARE: Patentin Ver. 2.1
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Solety Match 27.88, Store 49, 1995, Louist 288; Best Local Similarity 31.48, 1794, No. 3.76 25; Michigan Charter 71, Missorothes 95 todals
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NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.0
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IIILE OF INVENTION: IRAC1: Modulators of Lymphocyte Activation
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Hest Local Similarity (11.8%; Fred. No. C.De 29;
Matches 72; Conservative (11: Mismatches H5; Indels 2
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CHRENI FILING RATE
FROM APPLICATE RUMBER, FOR SERVICER
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FOR APPLICATE RUMBER, FOR SERVICER,
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"DESCRIC APPLIED NOTE: NOTE: DESCRIC APPLIED NOTE: 2002-03-27

PET 4F APPLIED DATE: 2002-03-27

PET 4F APPLIED NATION MINUTED NOTE: 2002-04-27
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FRICK APPLICALL: N. NUMBER: 60/124,270
FRICK FILING DATE: 1999-03-12
NUMBER OF SEQ. H: NVS: 1694
SI FIWAPE: Patent In Vol. 2.0
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31 38; Pred. No. 3 7c 25;
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: Patent No. US20020132753Al
: GENERAL INFORMATION:
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TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PTM23
                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Ver. 2.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER - US /09,764,864
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FITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
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                                                                                                                                                                    NAME/KEY: SITE
                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                              TYPE: DRT
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Score 348; DB 10; Length 231; Pred. No. 4.6e-25;
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PRIOR APPLICATION NUMBER: US 60/282,432
PRIOR FILIN: DATE-2001-04-06
NUMBER OF SEQ ID NOS: 18
                                                                                                                                                                                                                                                                                                                               Prior application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 1792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/764,864 CURRENT FILING DATE: 2001-01-17
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TILLE of INVENTION: FRACE: Modulators of Lymphocyte Activation
FILE RIFERENCE, 021044-053603H5
CUPRENT APPLICATION NUMBER: 08/09/998,667
CHERENT FILING DATE: 2001-02-06
PRIOR APPLICATION NUMBER: US-60/282,432
PRIOR FILING DATE: 2001-04-06
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Local Similarity 29.3%. Pred. No. 1.6e-18;
hea 66: Conservative 31. Mismatches 90. Indels 38: Raps
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RESULF 13 DS 09 754-864-1296

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Sequence 7. Application 98,10242212 publication No. USZU030099644A1 ofNerMAIION:
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Onery Match 11 79 Score 147 S. They. Best Local Similarity 22.89 Prod. No. 1.1-6-055 Matches 49: Conservative 26: Mismatches 95-
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APPLICANT: BONEWALD, LYNIA
LITLE OF INVENTION: CD40 LIGAND AND CD40 ACONIST COMPOSITIONS AND
LITLE OF INVENTION: METHODS OF USE
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| | CLASSIFICATION: 530 ATTORNEY/AGENT INFORMATION: NAME: White, John P | AT C. |
| | APPILICATION NUMBER: US/08/814,323A FILING DATE: | ₽≥ |
| | SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: | CURI |
| | MEDIUM TYPE: Floppy disk COMPUTER: IBM PC COmpatible COMPUTER: DESTRUCTOR | 22 8 |
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ox protein little: Perfect score: lotal number of hits satisfying chosen parameters: Scoring table: Rim on: protein search, using sw model 7 yMuscha Gapop 10.0 , Gapext 0.5 1 MCSVLSTDSGKSAFASATAR . . . US-09-948-667-1 June 18, 2003, 17.27.22; Search time 40 Seconds 283221 seqs, 96134422 residues Copyright (c) 1993 - 2004 Compages (tdLIRRVLDRSLLEYVNHSNTT 232 (without alignments)
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Minimum DH seq length: 0 Maximum DH seq length: 2000000000

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SUMMARIES

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ALIGNMENTS

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hypothetical protein LKESp43411714.1 - human (fraument) C:Species: Homo sapiens (man) C:Bate: 21 Jan-2000 #sequenct_revision 21 Jan 2000 #text_change 31 tan 2000

C: Accession: T43439

RiKochier, R.; Beyer, A., Mewes, H.W.; Wassenhaber, J.; Wremann, S. submitted to the Profess Sequence Latabase, December 1999 A.Resterence humber, 222514 A:Accession: T43439

A; Status: preliminary A; Molecule type: mENA

A: Residues: 1-183 < AAA>

A;Cross-references: EMBL:AL133557 A;Experimental source: adult testis, -2-me DKFxp43411714

A; Note: DKF2p43411714.1

5 S -Ξ Ş Matches 43; Conservative Query Match: 14.5%; Score 182.5; LH 2: Length 183. Best Local Similarity 25.4%; Pred. No. 5e-08; CVSLOWER SQUARKEYSTILLN, AND A STEEL TAY CANDIDENIASES ON THREATHER FOLK FOR FOR A SECONDECAMENT FOR THE FOREST FOR THE FOREST FOR THE FOREST FOR THE FOREST FOREST FOR THE FOREST 128 -----FLORIERTAAMOV--OPFOLKELY (INSTITATION FOR THE PROPERTY (I 1. ALIGENIMBERSON EN ARQUELYRMENHYRN RENGBEAGVSSILFNEGISGBSVGNS 69 70 NRSHISTSDNIHTYCENI9995HF01-80-F1-065NF1-RORLLOBONSNBLFC1VI-V10F1-1-Lev 86 ATOVAKPMKSEYENTALITOLISTMEARTED GETTIFE VO 26; Mismatches (7: Indels ()) Sign 127

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A.Fille. Globind and characterization of a class encoding the human homolog of tumor n A.E.Terese number. JC65'9, MUH. 98172715, EMID: 9511754 A.A.Cession, JC6539 P.ACTESSION, 306549 F.Micushima, S.: Fujita, M.: Ishida, I.: Acuba, S.: Fato, K.: Hita: M., otsaka, M., Gebe 207, 135-140, 1998

A.Cross references. DBB.AB06859, NID-4298273, LIDE BAAF462.1, LIDE-42982671 A.Comment. This protein is involved in transduction of signals from at one tomorphotoxin beta receptor. CiGeDetics: A, Molocule type: mRNA A, Residues: 1 557 MIZ

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G:Supertamily, GD40 receptor associated protein CAP-1, PINC finger harmer, G:Keywords: signal transduction; zinc finger #;66-114/hommin FINC finger hamalogy PEN.
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R:Cao, Z., Xiong, J., Takeuchi, M.: Kurama, T.: Goeddel, D.V.
Submitted to the EMBL Pata Library, October 1996
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C:Supertquily. CD40 receptor associated protein CAF-1; kIN3 finger homology
C:Keywords: colled coil; tumor; zinc tinger
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A;Note, interleukin-l induces the association of FRAFE with the TRAK section/threonome k)
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A; Residues: 1-275, 'A', 277-522 .CAW
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A: Residues: I 520 (TAC)
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163 PQCQPPFQKFHINIHILKD--CPPRQV$CDNCAASMAFFDKEIHDQNCFLANVICEYCNI LDd
                                                   142 PECCRELYEDSILEDHCITHHRSERRPVFCPLC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         184 -- EENLCPEYPVFCP 196
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          129 LQQC-----LFQPVQCSNEKCREPVLRKDLKEHLSASCQFRKEKCLYCKKDVVVINLQNH 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           116 IRTCQKYIDKYGPLQ -------ELEE-TAARC -----VCPFCQRELYEDSLLUH 156
                                                                                                      120 DNFAKR--EILSLMVKCPNEGCLHKME---
                                                                                                                                                                                                        61 DPPLE-SKYECPICIMALREAVOTPCGHPFCKACTIKSIPDAGHKCPVDNEIILENOIFP 114
                                                                                                                                                     87 TOVAKHMKSKYKNCAFCDTLVCLSEMFAHIRTCQKYIDKYGPLQELRETAAFCV----C 141
                                                                                                                                                                                                                                                            27 DEELPVISEDCAVGLEVLHQEVRIBADHVEARSATALISEKNNKWICEPYGRAYLESEGVEA RE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              70 -LSTREINTVPICPVDKEVIKSQEVFKDNCCKPEVINLYVYCSNAPGCNAKVIIGPYQDH 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               62 ATSLK NNRWTTEYGFAYLESERVEATEVAKE MESTYKNERE FIFTVELSEMEAH 215
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27.2%,
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Pred. No. 2.5e 05,
Mismatches 69,
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                                                                                                      --LRHLEDHQAHCEFALMDC 162
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A;Molecule type: mmRNA
A;Residues: 1-128, MY,130-133,135-404,767,406-568 +HHA
A;Residues: 1-128,7MY,130-133,135-404,767,406-568 +HHA
A;Residues: 1-128,7MY,130-133,135-404,767,406
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Asymolecule type: mRNA
Askesidues. 1-128, W.,130-568 KMOS>
A.Kesidues. 1-128, W.,130-568 KMOS>
A.Kesidues. 1-128, W.,130-568 KMOS>
A.Kesidues. 1-128, W.,130-568 KMOS>
B.Hu. H.M. offentar, K. Hogaski, M.S.: Dixit, V.M.
B.Hu. H.M. offentar, K. Hogaski, M.S.: Dixit, V.M.
B. Rich offentary and V.S. 1994
A.Titie. A novel RNBG finger protein juteracts with the cytoplasmic domain of CD40.
A.Flitte. A novel RNBG finger protein juteracts with the cytoplasmic domain of CD40.
A.Flitte. A novel RNBG finger protein juteracts with the cytoplasmic domain of CD40.
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A:Title: The Epstein-Barr virus transforming protein LMP1 engages signaling proteins
A,Feterence number A55649, MUTO 95163092, FMIC 7859281
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A. Titlo: Involvement of CRAPI, a relative of TPAP, in CD40 signaling. A:Reference number, Ars960, Mulp.95184010, PMID.7533327
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C;Species: Homo sapiens (man)
;;Sac: 15 Mar 1996 #seapshreerry;Sion 15 Mar:1996 #fext_change 01 Pec 2000
;;Late: 15 Mar 1996, A55649; A55135
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11.7%, Fred. No. 0.60913;
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C.Species. Homo sapiens (man) C.Date: 07 Apr 194 #sequenne_revision 18 Nov 1944 #rext_classec 21 Jul 2006 C.Dacewssion: A49656

estrogen-responsive finger protein, etp (RINC finger, coiled coil domains)

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170 HOESTERNS-----

-: VEHE 1-7SF1 188

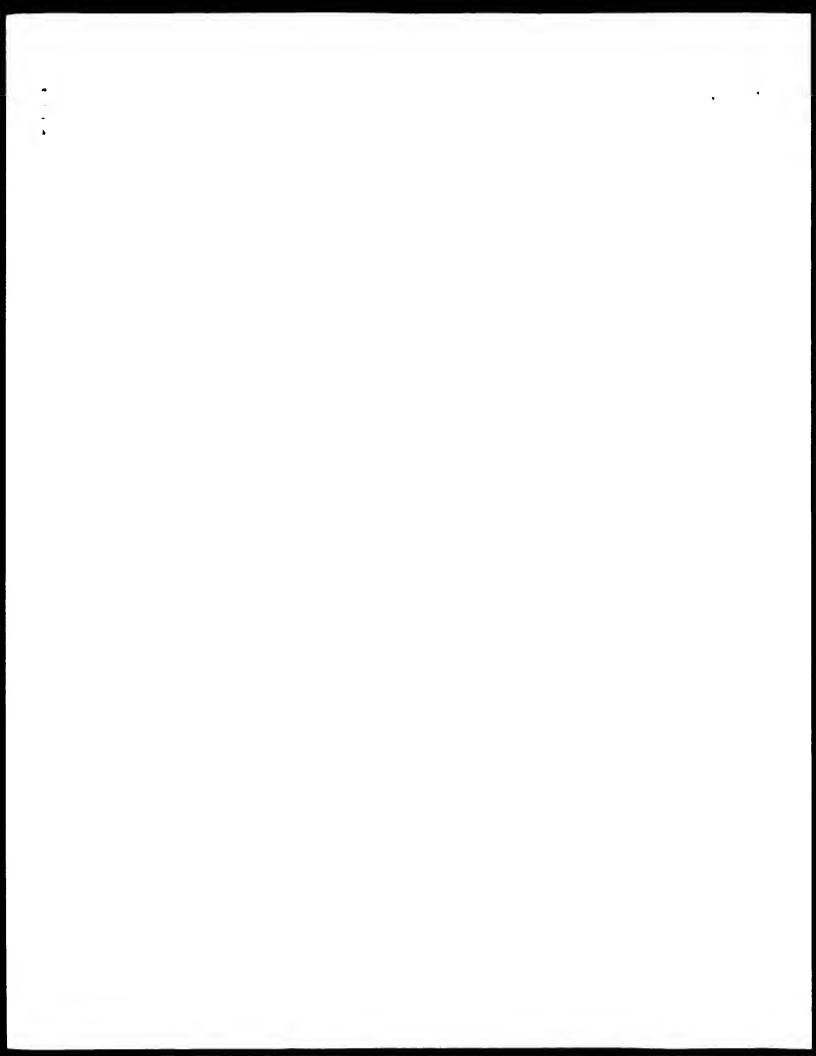
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Rithone, S. Orino, A. Hoso, T.; Nobelo, S.; Logoshuka, H.; Kondo, I.; Ikorimi, A.; Ordono, Natl. Acad. Sci. U.S.A. 90, 11117-11121, 1993.
A:Little, demonste binding-site cloning reveals an estrogen responsive gene that encodes a A.Retorence number: A49656; MUD:94068555; PMID:8248217.
A:Retorence number: A49656.
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A:Experimental source placents
A:Experimental source placents
A:Noperimently PINC linger bombles;
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F:9-59/Demain; RINC linger bomblegy -RNG -
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A:Molecule type: mRNA
A:Residues: 1-634 - RES >
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C:Species: Mus musculus (house mouse)
C:bate: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 05-Nev-1999
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Best Local complanity
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                                                                                                           ---- LV'MASETQEHLKPHFDSPAFQDHPLQSPIRDLLRRKCIQHNR--LKEFFCFE 16:
C. PILLICENPESISONLIBHIQVEHI 197
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23_8%; Pred No. 0 00023;
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25.6%: Pred, No. 0 00016
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C.Species, Homo sapieus (man)
C.Date. 17 Jul 1998 #sospecies provision 17 Jul 1999 #text_charactor Herizonov
C.Date. 17 Jul 1995 #sospecies provision 17 Jul 1999 #text_charactor Herizonov
C.Accession 568467
FERS Lett. 368, 11*-118, 1995
A.Betterene number of the IEAF Landly of public established public receive number, 15498, MULO.95129692, FMICE-750216
A.Betterene number, 15498, MULO.95129692, FMICE-750216
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A:Roterence number: J17787
A:Roterence number: J17787
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CD40 receptor associated protein CAF l
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A, hesidues: 1-518 coRI
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C:Spocies: Homo sapiens (man)
C:Eate: 17-Next2060 #seperare_rectsi a 17 Next2000 #foxt_change (8-For-2000)
                                                                                                                    F:49-97/Domain: RING tinger bondlogy - RNG -
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A:kesidues: 1 543 <SAT>
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                                                                                                                                                                                                                A:Gene: CAP-1
                                                                                                                                                                                                                                         C:Cenetics
                                                                                                                                                                                                                                                                      A: Experimental source: tissue-type tetal brain
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                            Guery Match
Best Local Similarity
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   Cobseivative
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25.4%: Fred. No. 6.66025
                         11.38c Score 142 to 186.
24.08) Fred. No. 6 00023
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C;Species: Mus musculus (house monse)
G;Date: 15-Mar-1996 #sequence_revision 15-Mar-1996 #text_change 18-Aug-2000
C;Accession: 149272
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A:Title: Involvement of CRAFI, a relative of TRAF, in CD40 signaling. A:Reference number: A55960; MULD:95184010, PMID:7533327
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                                                                                                                                                                    A:Molecule type: DNA
A:Residues: 1-306 <WOO>
A:Cross reterences: EMBL:ALI09652; PIDN:CAB51769.1; GSPDB:GN00067
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A; Residues, 1 567 < RES»
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    A: Map position: 2
                                                                                                                                                                                                                                                                                                A:Accession: [39702]
A:Status: preliminary, *ranslated trom GR/EMR//SERI
                                                                                                                                                                                                                                                                                                                                                                                                                                 submitted to the EMBL Data Library, July 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R; Wood, V.; Skelten, J.; Churcher, C.M.; Bajandreum, M.A.;
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                                                A;Gene: pi@37
                                                                                    C:Genetics:
                                                                                                                                     A; Experimental source: strain 972h-; cosmid c17A3
                                                                                                                                                                                                                                                                                                                                                                                         A:Relevence number. 22187.
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24.2%; Fred. No. 0.00043; Indels
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...
C:Superfamily: RING tinger homology
C:Keywords: zinc
F:386-354/Domain. RING Linder homology
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A.Molecule type: DNA
A.Bosidaca 1 1003 HAN>
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A,Title. The recombination activation poor I (PACI) of
A; Meterence number: ISINSS; MUID:95369845; PMID:7642280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C:Species: Oncorhynchus mykiss (rainbow tront)
C:Date: 1: Sep 1996 #Sequenke_regision 1: Sep-1996 #Text__-hange 21-141-2099
C:Accession: 151055
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C:EuperLamily: RINC finger homology
C:Keywords: DNA binding; vinc finger
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A:Mossidnes: 1-1043 < SCA
A:Cossines: 1-1045 - GR M29474, NIPSY1998427 PHENEAAACGZ48.1: PHE9190843
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A:Acression: A33754
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C:Species: 07-Sep-1990 #sequence_revision 07-Sep-1990 #1ext__charace 05-Nov-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R: Hansen, J.D.; Kaattari, S.L.
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                                                                                                                                A; Introns: 489/1
                                                                                                                                                                             A;Gene: RAG-1
                                                                                                                                                                                                                         C;Genetics
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Best Local Similarity 39.3%; Pred. No. 0.00043;
Matches 24, Comportative 11, Mismorehold 15,
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A.; ittle: Sequence and analysis of chromosome 2 of the plant Arabidopsis thalland. A. Peterepce number: A84429; MULD.26984487; FMIF.10617197
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Pred. No. is the number of results predicted by chance to have a score areater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| No. | Score | ¶otek Atem∂ | Match Length DB | E | ID | bescription |
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| 12 * TIDANOPLUELE ELAAM VERFEGARELYTE SCHURG LIBBESERMIVE ELERGIEGE 173 | THE TAX AND THE ANALYSIS OF STANDARD STANDARD TO STANDARD THE STANDARD STAN | 24 ERROCH. PVISTA (ANTHORYMON) TRY FOR LANCE REPORT OF THE FOREST CONTROL OF THE FOREST | Ouery Match Rest Land Shutlarity 32 4%; Fred. No. 1 Pe. 14; Matches 73; Conservative 45, Mishatches 81, Hidels 15, Saps 5; | ZN_F1N3 29 GB KIN3-TYPE SEQUENTE 228 AA, 26641 MW, TEADMFDB5GD7418G GB564 | FROSTIES, PS00518, 2F-KING_1: 1. PROSTIES, PS050689, ZF-KING_2: 1. 21n321 LING550689, ZF-KING_2: 1. | SMARKE SMOOTKA, CEFFICATE AS | InterPro, 1PRO0188, 3nt_0282. InterPro, 1PRO01841, 3nt_1104. Pros. GEORGICO. | EMRL: AF282919: AAGG1141.1: MGD: MG1:1933159: Z1p313. | or send an email to license isb sib ch). | modified and this statement is not removed. Usage by and his commercial continues requires a liveness paroleum (sac big jawww referbit in agreeous). | the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way | This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Biointarmatics and the EMBL outstation. | *!- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER | possibly associated with spermatogenesis.": Submitted (INN 2000) *c.the FMNG/ABONGABAK/DDNG databases | Thang S., Ma YX Xia G., Xiao C., Zhang G. "Cloning of mouse homolog of human zinc finger tike gene ZNF228 | STRAIN Kanning. IISSUE-Testis: | | Mammalia: Eutherma: Rodentia: Scharodbatbi: Maridae: Muribae! Mus. NCBL (Laxib=10090: | Mus musculus (Mouse) Eukaryota: Methicou: Chordata, Channata, Vertehnuta: Entercosteen. | CHESTACK GRADA OF CHESTAGE FOR CHESTAGE. | 15-JUN-2002 (Ref. 41, Last annotation update) | 15-JUN-2002 (Rel. 41, Freated) 15-JUN-2002 (Rel. 41, List Sequence update) | 2313_MODSE STANDARD; FRT; 228 AA. ∪9EF26; | |

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                                                                                                                                                                                                                                                                                                                This SWISS PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
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           EMBL: AF265215: AAF75763.1;
                                                                                                                                                                                                           use by non-profit institutions as long as its content modified and this statement is not removed. Stage by an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIINE-21638749; PubMod-11780052; Deloukas P., Matthews L.H., Ashurst J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE-Test is;
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                                                                                                                of send an email to licensemisb-sib.ch).
                                                                                                                                                             entities impaires a license agreement (See http://www.ish
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (SEP-2001) to the PMRL/MoorBank/MDRI databases -!- SIMILARITY: CONTAINS I PINCYTYPE ZINC FINGEP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Strausberg k.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            180 NESSERIALISTANTS ROLL HISAFIHALIN, SASSAM 081
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Q13114 Q13076; Q13947; Q12990;
30-MAY_2000 (Rei 39, Created)
30-MAY_2000 (Rei 39, Last sequence update)
15-JUN-2000 (Rei 41. Last annotation update)
15-JUN-2002 (Rei 41. Last annotation update)
1NF receptor associated factor
(CRAP) (CMA0 binding protein) (CD40BL) (LMPI associated protein)
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SMART: SM00555; ZHF_CH2; 1.
FR.STTE 17806518 ZF KING_1: 1.
PROSITE: PS50089; ZF_KIN3_2; 1.
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"A novel member of the FRAF family of putative signal transducing proteins binds to the cytosolic domain of CD40."; FERS Lett. 458:113-118(1995).
                                                                                                                                                             MEDM.(NE-95129692): PubMod 7530016;
Sato T., Trie S., Reed J.C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mostafos G., Birkenbach M., Yalamanchili R., VanAisdale I., Ware C.,
Rioit E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bukaryota: Metaroa; Chordata: Craniiti: Vortebasta: Entoloostomi:
Mammalia; Eutheria: Primates: Caturibini: Homicidae: Homo.
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                                                                                                                                                                                                                                                                              TISSUE Fetal brain;
                                                                                                                                                                                                                                                                                                                           SEQUENCE PROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                      Cell 80:389-399(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protorns for the tumor necrosis tartor receptor family.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LISSUE Lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SECURINCE INCM. N.A., AND CHARACTERIZATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sciency 267:1494-1498(1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Therma C., Cleary A.M., Ye C.S., Hear P.J., Redorman S., Rultimore D., "Involvement of CRAF!, a relative of TRAF, in CD40 signaling.";
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FRAF3 OR CRAF1 OR CAPI.
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F=613695, AAH13695.1;
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11. FUNCTION: SIGNAL TRANSIONER ASSOCIATED WITH THE CYTOPLASMIC DOMAIN OF THE 75 FOR TUMOP NEEDEST FACTOR REFERENCE (TME-PL). ALSO BINDS OF THE TOTAL TWO CONTROL OF NEEDESTAR.
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FROSTIE: ISSO145: ZF_FIR: 2 | 1
FROSTIE: ISSO145: ZF_TRAF; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ptam: PF00917; MAFH; 1.
Ptam; PF02176; zt-TRAF; 2.
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-!- SUBBULL HOMODIMER OR HETERODIMER WITH OTHER THE PROEPLOR ASSOCIATED FACTORS (FOTENFIAL).
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"A gozel KING linger protein interacts with the cytoplasmic domain of
JD40."
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MIM: 601896: -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         entities requires a license agreement (See http://www.ish.sib.sib.sib.com.or.sen/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nset by her profit institutions as long as its content modified and this statement is not removed. Asage by an
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Hu H.M., o'Kourke K., Boquski M.S.,
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22.7%, Fred. No.
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MIM: 600453; -
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From Nati. Acad. Sci. 0.S.A. 90.11117 lllz1(1994).
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Mammalia: Ediberra= Primates: Catarrhio: Hodoboke: Nomo
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SMART: SMUUT449; SPRY: I
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Ptam: PF00622: SPFY: 1.
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InterPro: IPR009877: SPRY_receptor.
InterPro: :PR001841= ZLI_ring
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-1- SIMHARITY: CONTAINS I KING-TYFE ZIWTEINGER
-1- SIMHARITY: CONTAINS I SPRY LOMAIN.
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15-JUN-2002 (Bel. 4), Last admotation opdate)
Cipe theor profesu 147 (Estaspen responsive frater profesu.) (ESp)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inche s.
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                                                                                              AN CALINAR DESIGNACION TROGENAMENT, SEO INPOCEDIA PETTERS, SO
76 TENENSETTO VICATION TO AREMESEIVEN. ART LITEN LISEMPARTED WENT OF THE TENENSE THE
                                                                                                                                                                                       ARTER TIMENNATISTIVE TO SALEDHELLE HANDELLE AND TO A SALED THE ARTER AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OLINE A...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             n s∪ AA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                117
509
                                                                                                                                                                                                                                                                                     (Red. 40, Created)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chordata: Cradiata: Vertebrata, Interestead:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Zuramir MW.
                                                                                                                                                                                                                                                                                                                                  11.7%, Score 146.5; DB 1
25 6%; Pred. No. 1.46 95;
                                                                                                                                                                                                                                                                                21: Mismatelyes
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NIGHT NOTE (FIRMITAL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EF4EF71 (F961) notes o o Kof4.
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RESULT 5
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                                                                                                                                                                                                                              He's
                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                           PROSITE: PSO0518: ZF_KING_1: 1.
PROSITE: PSSO089: ZF_KING_2: 1.
Zinc-Linger: Colled Cull.
ZN_FING 13 54 KI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           M3D: M31:102749; Frim25.
InterPro; HPRU01870: Gamma_carbxyise.
InterPro: 1PRU03878; SPKY_domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long as its content is in to we modified and this statement is not removed. "Sage by and the removement of entities requires a license agreement (see http://www.istoscib elymenters.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Orimo A., Inoue S., Ikeda K., Noji S., Muramatsu M.:
"Molecular closning, Structure, and expression of Mouse estrogen-
responsive tinger protein Etp. Collocalization with estrope complete
mRNA in target organs.";
J. Biol. Chem. 270:24406-24413(1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-007-2001 (Rel. 40, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Zinc thiquer protein 147 (Tripartite motif protein 25) (Estrogen responsive fiugar protein) (Etp).
ZNC147 OK FERM25 CK ZEP147 OK EEP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOUSE
                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro: |PR003877; SPRY_receptor.
|InterPro: |PR001841; Zhr.ring.
|Pram: |PF00097; ST-C3HC4, 1.
|Ftam: |PF00622; SPRY, 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE-Uterus, Ovary, and Placenta;
MEDLINE-96025835; PubMed 7592654;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SMART: SM00184; BING; SMART: SM00449; SPRY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FMBL; D63902; BAA09941.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               or send an email to licensewisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This SWISS PROT entry is copyright. It is produced through a collaboration between the swiss institute of Bioinformatics and the EMBL outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the European Bioinformatics Institute. There are no restrictions on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_laxID 10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mammalia: Eutheria; Rodentia; Schirognathi; Miridic; Mirinac; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryoja, Metaboa, Chordata. Craniata, Vertebiata, Euteleostomi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus muscalus (Mouse)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-001-2001 (Rel. 40, Greated)
                                                                                                                                                                                                                           [P.307]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       170 EITSECICHICLVEHKTCSPASLS 192
                                                          13 CSVCLELEKEPVTTPCGHNFGTSCLDETWVVQGPPYRCPQCRKVYQVRPQLQKNTVMCAV 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27. TOTA ATT A A TOTAL BENEARAST OF LEAD AND A PARK AND A PARK A STATE OF THE AND A STATE
                                                                                                                     17 CAVOLEVEHQPVRTROGHVFCPSCIATS -- LKNNKWTCPYCR----
                                                                                                                                                                                                 5
                                                                                                                                                                                                                           similarity
                                                                                                                                                                                                                                                                                                                      634 AA; 71772 MW;
                                                                                                                                                                                                                                                                                                                                                          514
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                                                                                                                                                                                             OAL FEALGSUCH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ----EVCMASECQEHLQPHEDSPAFQDHPLQPPVRDII.RRKCSQHNR---LREFFCP-169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STANDARD;
                                                                                                                                                                                                                                                                                                                                                    631
                                                                                                                                                                                                                                                                                                                                                                                        305
                                                                                                                                                                                                                 11.5%; Score 144.5;
23.8%; Prod No. 26
                                                                                                                                                                                                                    D4.8#;
                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                 SPRY
                                                                                                                                                                                                                                                                                                                                                                              COILED COIL (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                  RING-TYPE
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                                                                                                                                                                                                                                                                                                                   669509DE2832E611 CEC64,
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                                                                                                                                                                                                                       20.05
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                                                                                                                                                                                                                                                  DB 1; Length 634;
                                                                                                                                                                                   57; Indels 83;
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RESULT 6
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"Molecular cloning of testis-abandant finger protein/ring linger protein 23 (RNE23), a novel KING-B base-coiled coil-B40.2 protein on the collection of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KING linger protein 23 (Testis-abundant finger protein) (Tripartite motif-containing protein 39).
[FRIM39 OK RNE23 OR LEF.]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-oct-2001 (Rel. 40, Created)
15-JUN 2002 (Rel. 4), Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Elkaryota, Metazoa; Chordata; Granlata; Vertebrata; Enteleostomi;
Mammalla; Entheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q9HCM9; Q96IB6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KN23_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE-20462913; PubMed-11006080;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      liamo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Strausberg R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the class I region of the bunda MHC."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A. (ISOFORM 1).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 -Julition (MAY-2001) is the *MU. Comback/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IISSUE Colon;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A. (150FORM 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Biochem. Biophys. Res. Commus. 276:45-51(2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rrimo A., Yamaqishi I., Tominasa N., Yamaqchi Y.,
Kasa E., Sutak M., Sata M., Noji Y., Sutuki H.,
Voobeniya Citatii V.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE-Testis:
                                                                                                                                                                                                                                                                                    ALLEEKATIVE TROLUCIS: 2 is forms, 2 (shown here) and 2, may be produced by afternative splicing.
                                                       TISSUE SPECIFICITY: Obiquitous; highly expressed is testis. SIMILARITY: CONTAINS 1 RING-TYPE ZING FINGER. SIMILARITY: CONTAINS 1 B BOX-TYPE ZING FINGER.
SIMILARITY: CONTAINS 1 SPRY DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               172 ---- LCPLIPHYNPSSFSGNLIPHLQVSH: 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   130 QELEETAARCVCPFCQKEL-------YEUSIADHCIIHKSEKRPVECP- 171
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         73 VEQELQARQARTPVDDWTPPARESASSAATQVACDH - CLTETA--VKTC-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -----LVCMASFCQEBLRPHFDSPAFQDHPLQSPIRDLLRRKCTQHNR--LKEFFCPE 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
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InterPro: IPRO01870: SPPY_domain.
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IPRO01871: CHIC4: 1.
Fland PPO0622: SPFY: I.
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                                                                   Jonkius R.A., Lary E.

"A randidate gene for the amortanicss qustiniarion stage moves:
encodes a IPAP-related profess.":

100. 197-274 200(1995).
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Cherolic, Pieury A.M., Ye E., Hond C.L., Lockinson S., Baltimeto E.,
"Ibvolvement of CRAFL a relative of IRAF, in Polo Signalina ",
Science 267:1494-1498(1995)
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30-MAY 2009 (Rel. 39, Last sequence update)
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SHROULL. HOW DIMER OR BELLEODIMER WITH OTHER THE RESTREOR ASSOCIATION FACTORS (POLENTIAL).
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SMARR: SM00184: ZF_RING_1: 1.
PR0SITE: PS00518: ZF_RING_2: 1.
PR0SITE: PS50089: ZF_RING_2: 1.
PR0SITE: PS50145: ZF_TFAF: 2.
ZITC-TINGER: C-116d coll. Repeat.
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                                               01-APR-1990 (Rel. 14, Created)
01-APR-1990 (Rel. 14, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
                                                                                                                                                   RAG1_HUMAN
P15918;
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                      V(D)J recombination activating protein 1 (RAG-1).
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IMMUNICIONALINS AND I CELL RECEPTORS ARE ASSEMBLED FROM VARIABLE (V), DIVERSITY (D), AND JOUNING (J) GENE SECMENTS. THIS COMBINATORIAL PROCESS, KN'MN AS V(D)J RECOMBINATION, ALLOWS THE COMBINATION ALLOWS THE GENERAL PROCESS & KN'MN AS V(D)J RECOMBINATION, ALLOWS THE GENERAL PROCESS BY HINDING TO THE CONSERVED RECOMBINATION INTITATES THIS PROCESS BY HINDING TO THE CONSERVED RECOMBINATION SIGNAL SEQUENCES (RSS) AND INTRODUCTING A DAMBET STRAND RECOMBINATION SIGNAL SEQUENCES (RSS) AND INTRODUCTING A DAMBET SERVED IN FERRIC SALE RECOMBINATION OF ONE STRAND (HYDROLYSTS). FOR LOWER BAND OF THE ADJACENT COLONIS SERVED IN PROCESS AND ALSO BREN SHOWN TO FUNCTION AS A TRANSPOSASE IN VITRO, AND TO PUNCTION AS A TRANSPOSASE IN VITRO, AND TO PUNCTION AS A TRANSPOSASE IN VITRO, AND TO PUNCTION AS A TRANSPOSASE IN VITRO, AND THE RECOMBINATION OF THE STRAND SERVED IN STRAND CASES FOR THE PURCHASE OF THE PUNCTION AS A TRANSPOSASE IN VITRO, AND THE PUNCTION AS A TRANSPOSASE TO STRAND. SERVICINE THE PUNCTION AS A TRANSPOSASE TO STRAND SERVICINE THE PUNCTION AS A TRANSPOSASE TO STRAND SERVICINE THE PUNCTION AS A TRANSPOSASE TO STRAND. SERVICINE THE PUNCTION AS A TRANSPOSASE TO STRAND SERVICINE THE PUNCTION AS A TRANSPOSASE TO STRAND. SERVICINE THE PUNCTION AS A TRANSPOSASE TO STRAND SERVICINE THE PUNCTION AS A TRANSPOSASE TO STRAND SERVICINE THE PUNCTION AS A TRANSPOSASE TO STRAND SERVICINE THE PUNCTION ASSETTING THE PUNCTION AS A TRANSPOSASE TO STRAND SERVICINE THE PUNCTION ASSETTING THE 
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Mammalia: Entheria: Primates: Catarrhini: Hominidae: Homo_
NCRI_PaxID-9606;
schwarz K., Gaoss G.B., :
Friedrich W., Seger R.A.,
Lieber M.R., Bartram C.R.
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Gatta L.B., Ochs H.D., Schwarz K., Notarangelo I.D., Vezzoni P.,
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Science 274:97-99(1996).
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MEDLINE 97081229; PubMod 8844111;
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Proc. Natl. Acad. Sci. H.S.A. 91:7644-
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MEDLINE-96412253; FibMod-8810255;
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"Iwo dew Jarlants of FANT protein predicted by SEMP.":
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"RAG-1 interarts with the repeated amino arid metif of the human
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    !- CoFACTOR: Binds 1 magnesium or mandanese ion per subunit (By

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                                                                                                                                                                                                                                                   similarity).
                                                                                                                                                                                                                                                                                                              PRESENCE OF BOTH PROTEINS.
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K., Ishila Y., Imaskako S., Seki H., Yachie A.;
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Seger R.A., Hansen Hayge T.E., Desiderio S.
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SMART. SMO0184; KINO; ];
PROSITE: PS000518; ZF-KINO; ]; ];
PROSITE: PS500884; ZF-P1NG_2; ];
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V(D)J recombination activating protein 1 (RAG
HSSP: P159/9: 18M0.
InterPro: 1P8001841: ZLI_ripa
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SIMILARITY: COMIAINS I KING LYTE ZIN' FINDER.
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FROSITE: PS00518: ZF_RINC_Z. I. PROSITE: PS50089: ZF_RINC_Z. I. Bydrolase: Endonvelvase: Nuclear protein_ UNA kinding

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Best Local Similarity
                                                                 Submitted (MAR-2001) to the EMBL/GAMBRAIK/FIGRAL databases
if FUNCTION: TRANS-ACTING FACTOR THAT REGULATES GENE EXPRESSION OF
INTERLEUKIN 2 RECEPTOR ALPHA CHAIN AND OF HUMAN IMMUNOSEFICIENCY
VIPOR TYPE 1 MAY AFFECT ILZE ALPHA AND HIV-1 EXPRESSION THROUGH
CIS ACTING NEGATIVE REGULATORY ELEMENTS OF THROUGH COMPETITION
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MPDINE-2124[16]: PubMed 113315800
Roymond A., Moroni G., Fantoccii A., Morlo C. Cainaros S., Guffanti A., Minucci S., Pelicci P.G., Ballabio A.;
"The tripartite motif family identifies cell compartments.":
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P1353* (949PQ7; 949PQ8; 949PQ9; 249K55;
01-APR-1990 (Red. 14. Last sequence apdate)
I5-JUN-2902 (Red. 41. Last sequence apdate)
I5-JUN-2902 (Red. 41. Last annotation apdate)
Tripartite motif protein 30 (Down regulatory protein of interleukin
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Pataroa P., Schwartz J., Singh P.P., Kong Q.-F., Marphy E.,
Anderson Y., Sheng F.-Y.W., Singh P., Johnson K.A., Guarnagia S.M.
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Anderson Y., Sheng F.-Y.W., Singh P., Johnson K.A.,
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Proc. Natl. Acad. Sci. H.S.A. 88.7774-2737(1988)
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           WITH PROTEINS THAT BIND TO ENHANCER OR ACTIVATOR SEQUENCES.
SUBMELLULAR LOCATION: Number.
ALTERNATIVE PRODUCTS: 2 isolorms: Alpha (shown here) and Beta; are
produced by alternative splicing
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tl Arad. Sci H S A 85-5224-5224(1988)
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743
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NTAMOG
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EMBL: AF220014; AAG53468.1: -
EMBL: AF220015; AAG53469.1: -
EMBL: AF220016; AAG53470.1: ALT_INIT
EMBL: AF220016; AAG53470.1: -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss institute of Bioinformatics and the EMBL outstation the Entryman Bioinformatics histitute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not rowayed. Usage by and for commercial cuttres requires a license agreement (See http://www.isb/sib/domnoundercensend an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SMART: SM00184; RING: 1.
SMART: SM00449; SPRY: 1.
FRESTIE: FS50119, ZF_BBOX: 1.
                                                                                                                                                                                                      AUNGHELT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ewesile, PS00518, RF_RING_1; 1. PNoSITE; PS50089; RF_RING_2; 1. Transcription regulation; DNA-binding; frans-acting factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -i- SIMILARITY. CONTAINS I KING TYPE ZING FINGER.
-i- SIMILARITY: CONTAINS I B BOX-TYPE ZING FINGER.
-i- SIMILARITY: CONTAINS I SPRY DOMAIN.
-i- CAUTION: Ref.1 sequence differs from that shown due to a
                                                                                                                                                                                                                                                                                      CONFLICT
                                                                                                                                                                                                                                                                                                      "CNFT.CT
                                                                                                                                                                                                                                                                                                                  VARSPLIE
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Plan, PF05643; 2f B_box; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Sine-Linder, Nuclear protein: Alternative splicing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SMAPT; SM00336; BBOX;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS; PROI406; BBOXENFINGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro: IPRO00315; Znf_Hbox. InterPro: IPRO01841; Znf_ring.
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InterPro; IPP003878; SPRY_domain.
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75 NIVERTKO-EKSIPE-----FEGKVNI--GAGEGEK---IRIEGKKDMMVIGWIGER 120
                                 88 DVAKRMKSEYKNOAFOINTIVOLSEMPAHIPTOGKYILKYODIQHIFETAAROVODEOQR 146
                                                                  15 CFICLELLREIVSADENHSICKACITIANYESNERTDSEGNEFVERVITYPFGNLEPNLHVA 74
                                                                                                  37 GAVGLEVI.HQPVPTPCCHVFCPSCTATSI.KNN-----KWTGPYCKAYI.P----SEGVPAT 87
                                                                                                                                                   Similarity
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268
145
152
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241
268
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R -> K (IN REF. 4).

W -> K (IN REF. 4).

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CALWELM - SLHHIFFL (IN ISOFOPM BETA).
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                                                                                                                                                     0.02024;
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KA18_YEAST AC F10862

FAIR_YEAST

STANDARD;

PRT:

487

F10862;

01/JUL-1989 (Rel. 11, Created) 01/JUL-1989 (Rel. 11, Last sequence update)

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SMAKI: SM03184; KAP; I.
I.D;RFDMS I.I.
FROSTIE: ISSUS518; ZF_KING; 1; 1.
FROSTIE: ISSUS089; ZF_KING; 2; 1.
FROSTIE: ISSUS089; ZF_KING; 2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the European Bioinformatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for commen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "The Saccharomyces cerevisiae RADLB dene encodes a protein that contains potential zinc tinger domains for nucleic acid bindica and a putative nucleotide binding sequence.";
                                                                                                                                                                                                                                                                      InterPro. 1PR001841; Zht_Ptam; PF00097; Zt=C3HC4; Ptam; PF02037; SAP; 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entities requires a license agreement (See http://www.isb-sib.ch/auto-more, or send an email to license isb-sib.ch).
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Benit P.L. Manet R., Eabre E., Faye G., Fukah
"Sequence of the sup61-RADIB refree on observed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Saccharomyces cerevisiae (Baker's yeast)
Eukaryota: Fungl: Ascomycota: Saccharomycotina: Saccharomycetes:
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-! FUNCTION: FUNCTIONS WITH DNA REPAIR PROFEIN RADS IN ERROR-FREE
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Yeast 8.147-153(1992).
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                                                                                                                                                                   Zine tinger; DNA-binding: DNA damage; DNA repair; Nuclear protein
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InterPro, IPRU01841; Zhi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Potential DNA-bunding domains in the RAD18 gene product of Sarcharongres cerevisiae";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDI INE-89232745; PubMod-3673108;
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SHBURTHAR FORALICN: Nuclear
SIMILARITY: CONTAINS I PINSTYPE ZINC FINSER
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305802; DDBY18
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24 LLLRCHICKDFLKVPVLIPCCHTFCSLCIRTHL - NNQPNCPLCLFEFRESCLRSEFLVSE 82
                            33 ISFIGAVOLEVIHGDVETROCHVECKSCIAISLKNNKWIGEVC----
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487 AA:
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                                                           Conservative
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ul-MAR 1992 (Rel. 21. List sequence uplate)
15-JUN-2002 (Rel. 41. List annotation update)
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HSSP: [7]5919: 1RMD.
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SIMITARITY. CONTAINS I BING TYPE ZIMI FINGER,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -!- SUBCELLULAR LOCATION: Nuclear.
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01-FEB-1994 (Ref. 2B. Last sequence update)
15-JUN-2002 (Ref. 41, 1ast renotation update)
V(D)J recombination activating protein 1 (RAG-1).
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Dhanarajan P., Roux K.H.:
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                      DOMAIN: THE SPECIFIC BINDING TO THE NONAMER RSS MOTH IS MEDIATED
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HY THE NONAMER BINDING DOMAIN (NBD) (BY SIMILARITY)
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Best Local Similarity
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01.899;
16-0CT-2001 (Rel. 40, Last sequence update)
16-CT-2001 (Rel. 40, Last sequence update)
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Chn F.W., Capossela A., Coleman R., Goei V.L., Nallur G., Green J.
"Cloning of a new 'finger' protein gene (ZNF173) within the class
region of the human MHC.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   containing protein 26).
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SMART: SM00184; RING; 1.
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DNA recombination: Zinc-finger: Metal-binding.
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InterPro: IPROD3877; SPRY_receptor.
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InterPro: IPROD3841; Znf_Rhox.
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| | | SEQUENCE 212 AA. 29481 MW. | 2 inc-1114er | | | | | | | | | | | | Nakamura Y., Isoqai I., Suqano S.; | Strok: Y., Obayashi M., Nishi T., Shibahara T | | | | | | | | CDNA FLJ20456 fis, clone | 01-111N-2002 (TrEMPLI+1 | 01 oct-2000 (hemal.rel. | 01-0C1-2000 (IrEMBL:e1. | | 9NX39 PRELIMINARY; PRI; | C.S.N.X.G. | KESCI I |

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Best Local Similarity
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01-DEC-2001 (TrEMBLrel. 19, Last sequence update)

01-DEC-2001 (TrEMBLrel. 19, Last sequence update)

01-JUN-2902 (TrEMBLrel. 21, Last annotation update)

Unknown (Frotein for MGC:21737).
                                                                                                                            01-DEC-2001 (FEBMBLIEL 19, Last sequence update)
01-JNL-2002 (FEBMBLEL 1, Last annotation update)
Hypothetical 26.2 kDa protein
Mayara tascicularis (Crab pating maraque) (Cypomolgus mynkey)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro: IPR000822; zni_c2H2; InterPro: IPR001841: Zni_ring_ Priom: PP(0097; zi-c3Hc4: 1. SMART; SMO0355; Zni_C2H2; 2. SMART; SMO0355; Zni_C2H2; 2. PROSITE; PS00518: Zi RING_1; UNKNOWN_1. PROSITE; PS00518: Zi RING_1; UNKNOWN_1. PROSITE; PS00518: Zi RING_1; Zi RIN
                                                                                                                                                                                                                                                                         01-DEC-2001 (TremBirel, 19, Created)
                                                                                                                                                                                                                                                                                                                                                                      QUSKE1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          096EQ8
                        Cercopithecinae.
                                                    Mammalia; Entheria; Primates; Catarrhini; Cercopithecidae
                                                                                            Kukaryota; Melazoa; Chordata; Cramiata; Vertebruta,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Strausberg R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_Iax1D=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota: Metazoa:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FISSUE-FESTIS, AND EMBRYONAL CARCINOMA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 PSSESGNI.IKHLQVSHTLEYDDF1DFNITEEALLKPVLDRSLLEYVNHSNF 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 PSSFSGNLIPHLQVSHTLFYDDFIDFNIIEEALIRKVLPRSLLEYVNHSNII 232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121 KYTOKNGPI WELEETAAROVEPENWELYEDSLIDHCITHEKSEPERVETRITTELITTEN 190
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 KYIDKYGELQEFETAARMYGEETQEELYELSTLEHCITHHPSEEFEFEVETILGELILTIN IF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121 KY 15KYGPLQELEETAARCVCPFCQRELYEDSLLDHCITHHRSERRPVFCPLCRL1P5EN 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 TATST KNUKMIS DAG PAGE PAGE AND THE HELLIGHT 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 IATSLKNNKWTCPYCPAYLDSTYTATOVAKSMKSEYKNCAECLIVLYLSIMDAHIFDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 FAISERNNEW COPY. RAYEDSET VOATEWAKEMESEKENCAECHTLUCKSEMEARLEIC, LIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6.1 TATISTIKNNIKW EGPYO PAYLD SEPOVDATEDVAK PMKSEYYNO ABOD TILO DIE SEMPAH DEFOU 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Consernative
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97.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 1224, DB 1,
Pred. No 7.8e-118;
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                                                                                                                                                                                                                                                                                                                                                                          232 AA
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                                                                                                Euteleostomi,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
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RA Kawaii I. Shibaqawa A., Shibata K., Yoshino M., Hoh M., Ishii Y.,

FA Alakawa T., Hara A., Fukuniski Y., K. ne. Ada-U, H. Fakuda S.,

FA Alakawa T., Hara A., Fukuniski Y., K. ne. Ada-U, H. Fakuda S.,

FA Alicawa K., Izawa M., Nishi K., Kiyosawa H., Keedo S., Yamanaka H.,

RA Alicawa K., Izawa M., Nishi K., Kiyosawa H., Keedo S., Casavant T.,

RA Salto T., Gazaki Y., Gojobori T., Bono H., Kasukawa T., Salto R.,

RA Kadota K., Matsuda H.A., Ashburnor M., Batalov S., Casavant T.,

RA Kadota K., Matsuda H.A., Ashburnor M., Batalov S., Casavant T.,

RA Kuchi P., Lewis S., Matsuo Y., Nikaloo I., Prople G., Omerkeabush J.,

KA Kuchi P., Lewis S., Matsuo Y., Nikaloo I., Prople G., Omerkeabush J.,

RA Seli K., Okido T., Furuno M., Acuo H., Baldarelli P., de Bonaldo M.F.,

RA Gaslineich M.J., Bult C., Fletcher C., Fujita M., Garliboidi M.,

RA Gaslineich S., Hill D., Holmano M., Hume D.A., Kimiya M., Lee N.H.,

RA Gaslineich S., Hill D., Holmano M., Hume D.A., Kimiya M., Lee N.H.,

RA Gaslineich S., Bill D., Holmano M., Hume D.A., Kimiya M., Lee N.H.,

RA Sasaki H., Satu K., Schoenhach C., Soya T., Shibala Y., Storch K.-F.,

RA Sasaki H., Satu K., Schoenhach C., Soya T., Shibala Y., Storch K.-F.,

RA Sasaki H., Toyocoka K., Wang K.H., Weilz C., Whittaker C., Wilming L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pikargota, Metiasoa, eMordala; Grinnata, verrebraca, ....
Mammalia; Eulheria; Rodentia; Schiroquathi; Muridue; Murinae; Mus.
McN._lixID=10696;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -!- SIMILARITY: CONTAINS 2 KING TYPE ZINT FINGERS.
EMBL, ABUGGGIB, HABBAGGIO.1; -
InterPro; IPR000B22; Znf_C2H2.
InterPro; IPR000B41; Znf_Ling.
PF000B7; ZI-C3H24; 1.
SMAKT; SM00555; ZnF_C2H2; 1.
ERGSTIL: PS0051B; ZF_EKING_1; INKNOWN_1.
INA-BINDIG: Hypothetical protein; Zinc finger.
SEQUENCE 232 AA; 26204 MW; 9C13412In84DDD7F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE-TEMPORAL LOBE RIGHT;
Os.da N., Ridu M., Kusuda I., Tanuma v., Isaki K., Hirai M., Totao K.,
Suzuki Y., Sugano S., Hashimoto K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JUN-2001 (TrEMBLIO), 17, Greated)
01-JUN-2001 (TrEMBLIO), 17, Last sequence update)
21-JUN-2002 (TrEMBLIO), 21, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MELLINE 21085660; PabMed 11217851;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SIRAIN=C57BL/6J; TISSHE-TESTIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1939553P04RTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4930553F04Rik protein (Fraquent).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q9CUH2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    submillied (AFR-2001) to the EMBL/PerBlock/DDB1 databases
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SECHENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Isolation of Tuil-length oFNA clones from Macagae brain cDNA
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                                                                                  PA ASTANTE FOR THE NORTH MOREST FOR STANDER H. KASSIKAWA I., SAITO FOR MAJARIY Y. (GO)OHOTE II., HOND H., KASSIKAWA I., SAITO R., KASSIKA I., KASIKA I., KASSIKA I
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Best Local Similarity
Hayashizak: Y., "Aunotiona) annotation of a full-length mouse cDNA collection."; Nature 469.685{\circ}685{\circ}690(2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kawai J., Shinaqawa A., Shibata K., Yoshine M., Itoh M., Ishii Y.,
Atakawa I., Hara A., Fukudishi Y., Koone H., Adachi I., Fukuda S.,
Airiwi K., Iriwi M., Nishi K., Kip Sha II, Kabak S., Yubabaka J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-JUN 2001 (FrEMBLIC). 17, Created)
01-JUN-2001 (FrEMBLIC). 17, Last sequence update)
01-JUN-2001 (FrEMBLIC). 17, Last admotation update
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Eukaryota: Metazoa: Chordata: Cramiata; Vertebrata, Euteleostomi
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SMARI, SM00184; RINC: 2.
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Nature 409:585-690(2001).
/ SIMILARITY, ONIAINS | RING-TYPE ZING FINGER.
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Hayashizaki Y.,
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L. AKULETUS; BABBOLLS I; F.
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Eakaryota, Metacoa (Chordata, Chafrata, Vertebra'i) Enteleostomi
Mammaira, Eutheria, Erimates, (Atarrhin), Homoridae, Homo
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el-DEC-200l (frEMBLTCL 19, Last sequence update)
el-UNA-2002 (frEMBLTCL 21, Last amnotatice update)
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Kawai J., Shinaqawa A., Shibata K., Yoshino M., Itoh M., Ishii Y., Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukunda S., Alishwi K., Irawa M., Nishi Y., Konno H., Kando S., Yumanaka I., Saitu F., Okazaki Y., Gojokon T., Buno H., Kasukawa T., Saitu R., Saitu F., Okazaki Y., Gojokon T., Buno H., Kasukawa T., Saitu R., Kadeta K., Mutsuda H.A., Ashburner M., Rathive S., Casawart I., Eleisylmano W., Gansteriand T., Shasi C., Kina B., Kuchiwa H., K., Eri J., Lewis S., Mutsus Y., Mikaido L., Iroseio S., Saitu K., Goldo T., Errune M., Arne H., Fullarelli K., Barsh G., Kakai K., Goldo T., Errune M., Arne H., Fullarelli R., Barsh G., Kakai K., Goldo T., Errune M., Arne H., Fullarelli R., Barsh G., Kakai K., Goldo T., Errune M., Arne H., Fullarelli R., Barsh G., Kakai K., Goldo T., Errune M., Arne H., Fullarelli R., Barsh G., Kakai K., Goldo T., Errune M., Arne H., Fullarelli R., Barsh G., Kakai K., Goldo T., Errune M., Arne H., Fullarelli R., Barsh G., Kakai K., Goldo T., Farune M., Arne H., Fullarelli R., Barsh G., Kakai K., Goldo M.F., Barsh G., Ganstein M.J., Bult C., Barahara C., Barahara C., Barahara C., Kakai K., Goldo M.F., Barsh G., Ganstein M.J., Bult C., Barahara C., B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M., Esstusieb S., Hill D., Hoffmans M., Home D.A., Kamrya M., Lee N.H., Lyongs P., Marchiosni L., Masshama J., Macraielli J., Mombaerts F., Nordone P., Bing B., Bingwald M., Podriquez I., Sakamoto N., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Daye Ska E., Wang F.H., Welt C., Wilming L., Storch M., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Storch K.-F., Sasaki H., Sato K., Schoenbach C., Seya I., Shinata Y., Shinat
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Hest Local Similarity 29.8%; Pred. No. 1.8e-21;
Matches 67, Conservative 81; Mismatches 89; Indees
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01-MAR-2002 (TERMRISEL 20, Created)

01-MAR-2002 (TERMRISEL 20, Last sequence update)

01-HN 2002 (TERMRISEL 21, Last annotation update)

Hypothetimal 28.2 Kia protein.
                                                    WALLS II. MIGO S., YANG J., ZhADG X., LI M !

THOMO SAPIEOS TESTIS CINA.

SIMMITTED (AFR. 2012) I. I. I.

I SIMMITTED (AFR. 2012) I. I. I.

I SIMMITTED (AFR. 2013) I. RING-TYPE ZING FINE
EMBL. AF152580; AAD46523.2;
                                                                                                                                                                                                                                                                      01 MAY-2000 (TrEMBLIGE, 14, Last sequence update) of MAK-2002 (TrEMBLIGE, 20, Last unnotation update)
                                                                                                                                                                                                                                                                                                                                           OBUKTE
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SMARI; SMool84; RING; Z.
           InterPro: IPK000822: 2n1_22H2
InterPro: IPK001841: Znf_ring
Pam: PF00092: 21-03H04; 1.
                                                                                                                                                                                   NOBL TAKED-0606:
                                                                                                                                                                                                  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                Homo sapiens (Human).
Enkaryota: Metabou: Shorkata, Grandata, Vertebrata: Enteleoslogi.
                                                                                                                                                                                                                                                  850 4
                                                                                                                                                                                                                                                              HSD-4 protects.
                                                                                                                                                                                                                                                                                                          01-MAY-2000 (FrEMBLrel, 13, Created)
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SMART: SMOOT84: RING; 2.
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Mammalia; Entheria; Primates; Catarrhini; Romin;dae; Homo
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of JUN-2001 (frimHire), 17, Last Sequence update)
of MAP 2002 (frimHire), 20, Last annotation update)
2810480520818 protein (Fragment).
IFT CR 2810480520818.
                                                                                                                                                                                                                                     STRAIN-C57HL/61; IISSUE=EMBRYO:
MEDLINE 21085669; PubMed 312F7851;
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                                                                                                                      SMART: SMOOTS5; ZEF_C2H2, 1
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Mammalia, Entheria, Rodentia, Schurognathi, Muridae, Murinae, Mas
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29.38; Pred. No. 1 20.20;
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                                                                           RESULT 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Onery March 17.0%;
Best Local Similarity 27.8%;
  09W1R9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                           54 IMEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Enkaryota: Metasoa, Chordata, Craniata, Vertebrata, Enteleostomi,
Mammalia: Entheria: Podestia: Scrussynathi; Muridae; Murinae; Battus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-JUN-2001 (FrEMBErel, 17, Created)
01-JUN-2001 (FrEMBErel, 17, Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  099PD2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SMARI; SM00355; ZnF_C2H2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SMAR1: SM00184; RING:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro: IPR000822, 2n1_C2H2
InterPro: IPR001841: %n1_cing
Ptam: PF00097; z1-C3HC4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -!- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER. EMBL; AF315468; AAK11282.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCH1_laxID-10116;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (COI-255) to the EMRL/SecBank/Idel databases
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                                                                                                                                                       181 LFQIVEV 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                        NAT ANAMANA 791
                                                                                                                                                                                                                                                      130 QELEKTAARC -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        140 -----VCPECQRELY-FDSITDBTTHHRSERPRV 168
                                                                                                                                                                                                                                                                                                                                                           64 REKACPERAIDI KNIMPPVSG---SCRCCSKKIKFYPMPHHYKSCKKYQDEYGVSSVIDN 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23 ERRRIDPELPVISEDCAVCLEVLHQPVRT.PCCHVICPSCIATSLKNNKWIGPYCPAYJ.-- 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   64 FNIMPRESC---SOPOOSKKIKEVPMRHHYKSOKKYJDEYGVSSVIENPKISODSVESSS 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       87 THVAKRMKSEYKNCAECHTLYCLSEMPAHIRTCOKYTHYKYG-----PLOFLEETAARC-- 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           35 FLCAVCLEVLHCPVRT-FCCHVECTESCIATSIENNKWTCPYCRAYL------PSPCVPA 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                            4 ELSADESYTEDDFYCPVCQEVLKTPVFTAACQHVFCKKCFLTAMHKSCTHCFLCKCSVTR 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4 FYCEVCQEVLKTEVRTAACQHVECKKCELTAMRESSTHCELCECSVTREERACEESTLL 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SGYPTEKCPLCQESNETKQRLLDHCNSNHLEQIVPV 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gou D., Zhang X.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.7× AA
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                           PPELIMINARY,
                                                                                                                                                                                                                                                                                                                                                                                                         PSECVEATIVAMMESTYFN (AMOUNT) THE TRANSPORTED SANGEN TO THE PROPERTY OF THE PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24072 MW; 803AU6E4ER24CFDB CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. 5e-14;
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                                                                                                                                                                                                                                                                                                          204 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 11; Length 209;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DR 11; Lengt! 178;
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TISSUE-SYNOVIAL MEMBRANE HISSUE:
SLIGHT O., Sabaki N., Altsuka E., Nimura R., Yoshikawa Y.,
Matsumoto K., Hirano M., Sabo S., Nimura R., Yoshikawa Y.,
Matsumoto K., Hirano M., Sabo S., Nimura R., Yoshikawa Y.,
Matsumoto K., Moriya S., Chiba E., Momiyama H., Onoqawa S.,
Kaci Yama S., Siloh N., Matsumawa H., Yakahishi F., Karaoka K.,
Kingia N., Kuroda A., Satoh I., Kanada K., Takamo S., Icrababima Y.,
Matinabe M., Shqiyama I., Irre R., Olshki J., Subo H., Wakamatsu A.,
Shli S., Yamamoto J., Isono Y., Kawat-Hio Y., Saito K., Nishikawa
E.muria K., Yamaweita H., Matsuo E., Nakamura Y., Sekino M.,
Kikuchi H., Kanda K., Wayatsuma M., Morakawa K., Kanobori K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OM6DMO:
OT EEC-2001 (TERMELTEL 19, Created)
OT DEC-2001 (TERMELTEL 19, Last sequence update)
el-JUN-2002 (TERMELTEL 21, Last amoutation update)
CDNA_FLJ32639_fis__clone_SYNOV2001914, weakly_similar_to_Mus_musculus
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01-NoV-1999 (TEMBERG).
91 MAR 2002 (TEMBERG).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Crancita; Vertebalta; Esteleostomi;
Mammalia; Entheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (Human)
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SMART; SM00355; ZhF_C2H2, 1.
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Mammalia; Eutheria; Rodentia; Schuroquathi; Muridae; Murinae, Mus
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TRIF.
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InterPro, IPR001841; ant_ring.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         187 KYETYASIMIETYGEDTYSYGHTTENCPICQESNETRORILDHCNSNHIEGTVPV 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   76 ENIMPRESO---SCIPTISKRIKEYRMRHHYKSTKKYQDEYTYSSVIPNEKISQDSVRSSN 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              87 TOVAKEMESEYENGALEDELYCLSEMFAHTFTCEKYTIVKYG-----PUEFLEETAARG-- 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25. TATALANDE ABALTANDE DASSELLE STAMPESS THOUTOBOX ALBERTANDE STATE TO THE STATE OF THE STATE O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  35 FDCAVCLEVLHGDVPT-PCGHVFCPSCTATSLENNKWTCPYCRAYL------PSEGVPA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative 23; Mismatches 58;
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28.6%; Pred. No. 1.6e-13;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 14.5%; Score 182.5; DB 4; Length 183; Best Local Similarity 25.4%; Fred. No. 7.5e-11; Marches 43; Conservative 26; Mismatches 67, Lodels 33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 15.2%; Score 191; DB 4: Length 128; Best Local Similarity 81.4%, Pred. No. 6.8e-12; Matches 48; Conservative 17; Mismatches 43; Indels 44; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kochret K., Beyer A., Mewes H.W., Gassenhuber J., Wiemann S., Submitted (CBC-1999) to the PMBE/GenBankZiDB C databases. EMBL. ALL455.7; LAM6.8712.1; LitterPro. 1PPD00822; Zut.72B2.
SMARI: SM00455; ZnF_C2H2; 1.
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Eukargota: Metazoa: Chordata: Craniata: Vertebrata; Enteleostomi;
Mammalia: Eutheria: Primates: Catarrhini; Hominidae; Homo.
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Ol MAY 2000 (TrEMBLEEL 13, Last sequence update)
Ol MAR-2002 (TrEMBLEEL 20, Last annotation update)
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SMARI SMOD455; ZDF_72H2: 2.
PROSITE_PS50157; ZINC_FINGEK_C2H2_2: 1.
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                                                                                                                                                                                              173 CRITEDENESSESGNEIPHIQUSHTEFYDDFTDFNITEEALTRRULERS 221
                                                                                                                         130 CVSLPWCDPSQTIRNFVSIILNOKHOFDYGFFVNLQLDEGIGYQ1AVEES 178
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             208 IIEEALIRRVLDRSLLE 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     112 MRAHIRFOOKYTDKYGPEGELFETAARG-------VCPFG-QRE 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               148 TYEDSTIDHOTTHHESERRPVFORTCRLIPLENESSESGNEIKHLOVSHTERYINGTDEN 207
                                                                                                                                                                                                                                                                               70 NRSELSTSONIETYGENTSSSOHFTEKOPLOGESNEIRGRUIDHONSNHLEGIVPVIOPI
                                                                                                                                                                                                                                                                                                                                                                                                                                 10 ALLICENIMERESOSOPOOAK@IKEYEMPHHYKSOKKY@DEYGVSSITENE@ISQUSVONS 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   86 ATDVAKRMKSEYKNGAEGOTI VGI SEMPAHIRIGGKYIDKYG----- IV------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      51 LDQQELYKHCYFSHRODPNRYYCFICSAMFWGFESYKSANFIQHLLHRHRFSYIJFYDYS 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MRVHISSCLK------VURUMANCPKEVPVVPTSQPIPSNIPNRSTEACPYCCARN 50
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